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MARCH

1913

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THE INDUSTRIOUS HEN

A MONTHLY MAGAZINE
FOR THE
COMMERCIAL AND FANCY POULTRYMAN



First Prize Blue Andalusian Pullet, Atlanta, Georgia, December, 1912.
Bred and Owned by J. McD. Gamewell, Newry, South Carolina.

THE INDUSTRIOUS HEN CO.
PUBLISHERS
KNOXVILLE TENNESSEE

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THE INDUSTRIOUS HEN 3 YEARS \$1

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ALLENTOWN—1st, 2d, 3d cock; 1st, 2d, 5th hen; 1st, 2d cockerel; 1st, 2d, 3d pullet; 1st, 2d pen.

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ATLANTA—3d cock; 2d cockerel; 2d pullet; 1st pen.

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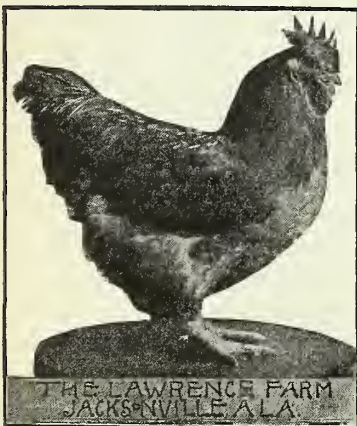
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HAGERSTOWN—1st cock; 1st hen; 1st pen chicks.

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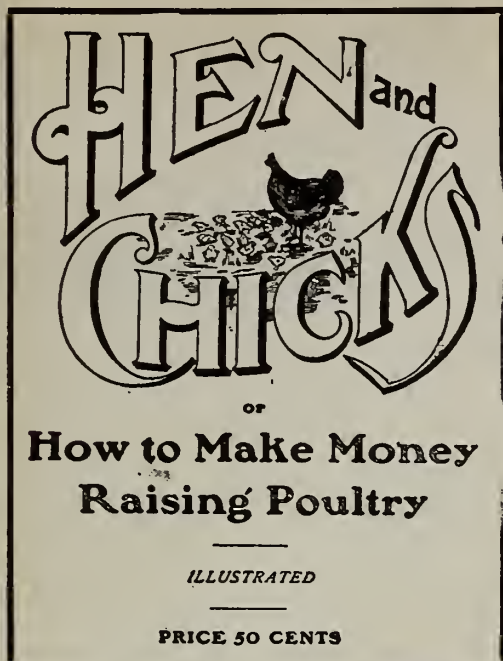
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SINGLE COMB WHITE LEGHORNS, Laying Strain, Standard Bred, White to the Skin, Blue Ribbon winners. Eggs, \$1.50 per 15; \$3.00 per 50; \$5.00 per 100. Stock for sale. Write me. J. G. WALTER, Route 2, Afton, Tenn.

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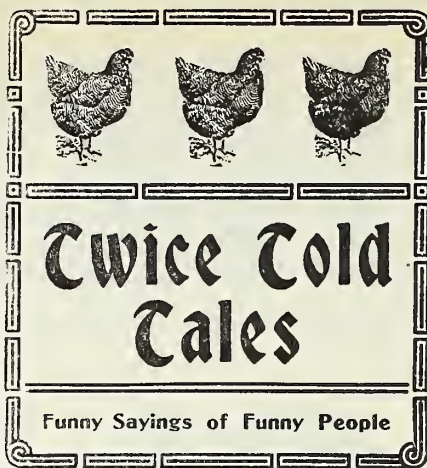
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\$150.00 pen, consisting of 1 cock and 6 hens. Wm. Cook & Son's best WHITE ORPINGTONS. A great bargain to any fancier. Correspondence invited. MRS. JEROME TEMPLETON, Kingston Pike, R. F. D. 2, Knoxville, Tennessee.

**Hen or Rooster?**

After the teacher had recited "The Landing of the Pilgrims," she requested each pupil to try to draw from his or her imagination a picture of Plymouth Rock.

Most of them went to work at once, but one little fellow hesitated, and at length raised his hand.

"Well, Willie, what is it?" asked the teacher.

"Please, ma'am, do you want us to draw a hen or a rooster?—Exchange.

The Only Way.

A clergyman met one of his parishioners in a country lane late one night.

"It's pretty damp for a man with rheumatism to be prowling about at night, eh, William?"

"Well, sir, I'm following the doctor's advice."

"Why, did he tell you to be out at night?"

"Not exactly, sir; but he said that I needed chicken."—Ex.

In Danger.

"If ignorance is bliss," said Black To White, "well, then, my boy, You'd better get your life insured:

You're apt to die of joy!"

—March Lippincott's

A hen sits to lay and lays to sit.

A Pleasantry that Recoiled.

Paddy Doolan went into a shop one day to buy eggs.

"What are eggs to-day?"

"Eggs are eggs to-day, Paddy," replied the shop man, looking quite triumphantly at two or three young lady customers who happened to be in the shop.

"Faith, I'm glad to hear you say so," replied Paddy, "for the last ones I got here were chickens."—Exchange.

Brown—"There seems to be a strange affinity between a darky and a chicken."

Jones—"Naturally enough. One is descended from Ham and the other from eggs."—Ex.

White WYANDOTTES

A few choice pure WHITE WYANDOTTE cockerels at right prices. Very vigorous stock.

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| For 30 days, \$5.00 per 15. | |

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Buff Orpington Duck Eggs \$6 and \$8

Per Setting of 13. Guarantee prize winners from best eggs. Won Sweepstakes Cup from largest duck show ever held in United States.

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S. C. Buff LEGHORNS
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Can fill orders promptly.
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Duck eggs, \$1.50 for 12.
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Blue ANDALUSIANS

Black Spanish, Sheppard's Anconas, White and Fawn and White Indian Runner Ducks. The greatest layers. First prizes Charlotte, etc. Eggs from prize pens, \$2.00 per 15; \$3.50 per 30. Write for booklet.

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My birds are among the best in the South. I have a limited number of eggs for sale at \$3.00 per setting. Two settings for \$5.00

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From Buff, Black and White Orpingtons, Cook's best strain, bought direct. Eggs \$3.00 per setting of 15 from all pens except imported pen of Buffs, which are \$5.00 per 15. MRS. JEROME TEMPLETON, R. 2, Kingston Pike, Knoxville, Tennessee.

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Stock and Eggs for sale from First Prize Winners at Southern International Show, Atlanta, December, 1912. RESTHAVEN POULTRY FARM, F. O. ALEXANDER, Owner, Box L. C., College Park, Georgia.

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For sale at a bargain. Other business demands my time.

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World's Famous Cup Winners. Cockerels cheap for quick sale. Also Black Wyandottes, Silver Campines and Buttercups. Get the best. Booking eggs. Mating list free.

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ANCONAS

1st prize winners, 1st cockerel, 1st hen, 1st pen. Eggs \$1.50 per 15; Indian Runner Ducks, Fawn and White; 1st pen prize winners at Sevierville show, 1913. Eggs \$1.00 per 13.

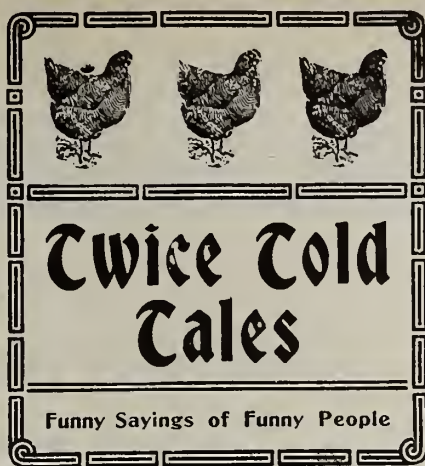
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EXCLUSIVELY

Nothing in my pens but the best, as proven by my winnings the past season. True Leghorn type and even color. Eggs, \$2.50 per 15.

J. WIRRON WILLSON, Spartanburg, S. C.



Twice Told Tales

Funny Sayings of Funny People

A New Side Show.

Tommy had been to the circus with his father and was telling mother all about it.

"But," he said regretfully, "there was one side show we didn't see."

"How do you know you didn't?" asked his mother.

"Well," explained Tommy, "just as we were leaving I heard Mr. Jones tell papa that he'd better stick around so as to see some of the pretty chickens."—The Popular Magazine.

The Goose That Laid Golden Eggs.

(Revised)

A certain man had a goose which laid him a Golden Egg every day. A foolish friend advised him to kill the Goose and realize at once on the future.

"No," said the man, "that is not the proper way. I know a better." Thereupon he organized a company and issued stocks and bonds which he sold at a good round figure. Then he gave out the report that the Goose had quit laying. This enabled him to buy the stock back at a low figure. Then he gave out the report that the Goose was laying two Eggs a day, which enabled him again to sell the stock at a big advance. After he had repeated this process a number of times, he was so rich that he didn't care what the Goose laid or when. Accordingly, he invested his wealth in gilt-edged securities, journeyed abroad, and went in for art.—Ellis O. Jones in March Lippen-cott's.

Too Valuable.

"How about this sending eggs by parcel post?"

"I fear it will tempt the cupid-ity of train robbers."—Louisville Courier Journal.

Very Weak.

Bacon—"This paper says there is a spring in Nevada whose waters taste like chicken soup."

Egbert—"Well, I've often had chicken soup that tasted like spring water."—Ex.

Rufus Red Belgian Hares
Thoroughbred—Pedigreed
Buff Orpington Ducks
All Varieties Indian Runner Ducks
Sicilian Buttercups—S. C. White Leghorns
for sale. Eggs in season.
WHITE EGG POULTRY FARM, Manassas, Va.

Blue ANDALUSIANS

Two high-class breeding pens for sale at \$25.00 and \$15.00 each. Hatching eggs balance of season at \$3.50 per 15. These birds are bred direct from Madison Square Garden winners and are blue ribbon birds, Atlanta, Ga., Dec. 1912. J. McD. GAMEWELL, Fancier, Newry, Oconee County, South Carolina.

SNOW WHITE

Indian Runner Ducks

Patton stock, prize winners. None better. Eggs, \$2.00 per dozen. Fawn and White, all white eggs, \$1.00 per dozen. Mottled Anconas, Barnard strain of winter layers; eggs, \$1.00 per 13. C. L. WHITNEY, Thomasville, Ga.

WHITE LANGSHANS

"THE WORLD'S GREATEST UTILITY BIRD." Now booking and shipping eggs for hatching, from Three Special Pens. Order early. Satisfactory hatches guaranteed. No better blood in the country. Pen No. 1, \$3.00 per 15; pen No. 2, \$2.00 per 15; 50 eggs for \$5.00. Utility pen, \$6.00 per 100. Recognized authority on Langshans.

A. D. FREESE, Box A40, Mohawk Village, O.

White Diarrhoea!!

A guaranteed cure 25c.
J. C. Fishel says, "It does the work."
A sure preventive 25c.
A big box of both 40c.

NABOB REMEDY CO., Box 23, Gambier, Ohio.

Donaldson's REDS

BABY CHICKS AND EGGS

Recent winnings—1st cockerel, 1st hen, 1st and 3d pullets, Birmingham; 4th cock, 1st hen and 1st pullet, Atlanta, Oct.-Nov., 1912. Write for mating list.

MRS. DONALD DONALDSON, Decatur, Ga.

SILVER SPANGLED HAMBURG

None better in the South; rangers, layers and payers. I won all the 1sts and tied on grand sweepstakes pen at Sevier County Show. Three beautiful pens mated. Eggs, \$1.25, \$1.50 and \$2.00. Write me before buying.

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THE INDUSTRIOUS HEN

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Knoxville, Tenn., March, 1913

(Whole No. 106) No. 10

A Combination That Is a Sure Winner

Cows, Poultry and Fruit Growing—By IRA WATSON, Fredonia, New York



WINTER eggs, for it is the winter eggs that pay), that he can increase his income from \$900 to \$2,000, to say nothing

of the vast amount he will increase the yield of his fruit from the hen manure. I know from practical experience that 1,600 pounds of hen manure, 300 pounds of acid phosphate and 100 pounds of muriate of potash is worth as much as one ton of commercial fertilizer in growing most kinds of fruit and vegetables; and when fruit growers learn what a vast amount of worms and bugs the chickens destroy, they will keep large flocks. I have had the chickens follow me all day when cultivating berries, picking up grubs and worms, and how the chickens and berries will grow!

I plant my cherry and plum trees 21 feet each way and plant a row of black or red raspberries in the row of trees and two rows between, and the first year I plant a row of strawberries, potatoes or beets between the rows of raspberries. We crop the strawberries only one year. The beets are the cow beets and we feed them to the cows and chickens in the winter. They are a great food for hens. We feed beets one day and cabbage the next; this keeps the hens healthy. Have your cows freshen in November or December and feed the skimmed milk to your hens. Let it sour and get thick. This is a great egg food. There is no animal on the farm that you can feed your skimmed milk to that brings you more dollars and cents than to feed it to your hens, and if you have a good laying strain that have been bred for winter eggs, you will get lots of eggs

when the price is from 35 to 50 cents per dozen. I have gathered 187 dozen eggs in December from 75 April pullets and 75 yearling hens, that sold at 45 cents wholesale per dozen; \$83.55 for December. There are poultry keepers near me who have 700 Leghorns and other mixed breeds, that only got 87 dozen in December.

Now the reason that I get so many eggs is that I have been breeding for years for eggs and not for show. The passion to produce a strain of great winter layers has inspired me to do a vast amount of hard thinking and experimenting in order to perfect a strain of hens so that certain characteristics have been definitely established. Well directed

efforts mean more than merely industry and hard work. Thought is the most practical and powerful of all man's forces. The thinking man is the successful man. A person with little or no experience or understanding of breeding for eggs knows little of what it cost in money, to say nothing of years of patience and hard work to establish a strain of great layers. By thought I conceived the future possibility of a great laying strain and they are the most profitable fowls to keep. After years of experience of breeding and feeding for the production of eggs, I am convinced that success not only depends upon natural ability but upon a thorough understanding of the law of hereditary organism before we can intelligently breed for heavy egg-production. The difference between a poor and a good strain is just the difference between a systematic breeding and carelessness, and between success and failure. In the case of my great strain of winter layers, the complexity is the greater because the egg-functions have been de-



FIRST PRIZE S.C. WHITE ORPINGTON CKL. ST. L. U.S. M.
OWNED & BRED BY Wm. G. K. & SONS ORIGINATORS OF ALL
THE ORPINGTONS SCOTCH PLAINS, NEW JERSEY.

veloped by applying the right system of breeding and feeding. Years ago I thought out the possibilities of a laying strain that my intuition told me would be sought after in the years to come. I have hens that have laid from 180 to 291 eggs in a year; have 50 that averaged 240 eggs a year, that sold for \$6.60 per hen at 33 cents per dozen. I keep all my poultry in open front houses with sand for



A Prize Winner. Bred and Owned by Buschmann-Pierce Red Farm, Carmel, Indiana.

floors and deep litter on the same and make them work for all their grain in winter. This keeps them strong and healthy and their eggs hatch much stronger chicks that are bound to live and grow.

I have contended for many years that there was as much in breeding hens for eggs as there was in breeding cows for butter and milk, and now all the Experiment Stations are coming out with the same statement, and one of the factors is in having a cock or cockerel from a hen that has been a great layer to head your flock. Now, brother fruit growers, if you will get started with a good laying strain of hens, keeping 500 to 1,000 and have them help you keep down the weeds, pick up the bugs and grubs, the cultivation of your fields and the consequent keeping down and even killing out weeds, behold, when the harvest time comes your berries and cherries and apples will be bigger, sweeter and better in every way.

Now is the time to make the plans for your hen house. Make it 16 to 20 feet wide and the length according to the number of hens you are going to keep. Give them good feed and keep them free from lice. I have experimented with a good many kinds of lice killer and if any reader of this paper wants to make his own lice killer, I will tell him how to make a good one if he will send me a stamp for a reply.

If all farmers and fruit-growers could be made to realize the true value of the fertilizer procured from keeping 500 to 1,000 hens, with adding acid phosphate and muriate of potash, that it would go toward increasing their crops, they would be investing more in poultry and less in commercial fertilizer. I have proven by practical tests for many years that I can nearly double the yield in most all kinds of fruits and vegetables with the hen fertilizer. The best way to mix the acid phosphate with the hen manure is to keep your acid phosphate in your hen house and sprinkle one pound on the dropping board every morning to every 20 to 25 hens and also sprinkle a small amount of sand from the floor. The two will keep the ammonia from escaping. Do not put the muriate of potash with the hen manure, but sow this broadcast. With this fertilizer, I can grow 25 tons of tomatoes per acre. I sell them to the canning factory here at \$9.00 per ton. In planting the tomatoes I mark out with a one-horse plow, then scatter the fertilizer in the trench, then plant the tomatoes. Plant them deep and slant the tops along the trench. Do not put all the soil back at first but let it work back as you cultivate, and cultivate often and you will get big yields of the finest and best quality tomatoes you have ever grown.

It should also be remembered that the keeping of poultry at a good profit will mean but little more work and will scarcely interfere with the other farm work. To be sure, it will necessitate looking after this part of the business of the farm as carefully as any other department, and

when you get a good paying strain you can sell eggs for hatching and you will find this paper a good one to advertise in. I have found it so. I always use it in the winter and spring when I have stock and eggs for sale and am offering \$100.00 for the best egg record from 10 or more pullets hatched from eggs from my strain of winter layers. You will find my ad. in this number.

It is wonderful how the poultry industry has advanced at such a rapid rate that no mathematician can keep up with it. The number of eggs laid in 1911 was over 26,000,000,000, which would equal 2,183,330,000 dozen. This would take about 198,220 freight cars to take them to market. One would be quite apt to think from that vast increase in the amount of eggs that prices would go down, but this is not the case, for the price of eggs and poultry has rapidly advanced within the last few years. It is very interesting to the poultry keeper that the market is never overstocked with strictly fresh eggs nor with first quality of poultry at prices that pay a good profit to the poultry keeper, and parcel post will help us fruit-growers and poultry keepers. Go to your nearest city and contract with private families to furnish them with fresh eggs, butter and fruit and then see to it, brother, that you furnish them with strictly fresh and first-class goods. In this way you will cut out the middleman's profit that in many cases has been nearly twice what the farmer gets for his goods.

I know that farmers and fruit-growers should realize what a wonderful help a flock of chickens are in destroying insects which destroy fruit and other crops, and the ever busy hen not only rids the farmer of these pests but helps furnish her living. Fence in your garden and give your hens free range; get started with a good laying strain and see how your bank account will increase. I know of no combination that each works for the other as poultry and fruit, and any fruit-grower that has never seen the wonderful crops of strawberries, black and red raspberries that I have grown with the hen fertilizer that I have just told you how to make, could hardly believe his eyes. Not only that it increases the number of quarts but the size and quality is improved so that you can get a higher price for your berries.

We have a very good market in Fredonia for fruit and vegetables. We have a very large canning factory and a factory that puts up all kinds of fruit juice, and we have a fruit-growers shipping association. There are from 5,000 to 9,000 car loads of fruit shipped from this fruit belt a year. Fredonia has some of the richest fruit farms of the Empire State and is called by many travelers the Garden of Eden of the Empire State. We have the best of schools, one of the finest normal schools in the State. We have natural gas. This was first discovered in Fredonia. Largest grape nurseries in the world are here.



R. I. Red Cock. Owned by Buschmann-Pierce Red Farm, Carmel, Ind.

Poultry is Rapidly Developing in the South

From the Southern Field, Washington, D. C.



THE HEN is coming into her properly important position in the Southeast, where she rewards by unstinting industry the most favored natural conditions she finds anywhere in the United States. By way of illustrating her increasing value in this section, census reports show that the egg crop of the Southeast increased in value nearly twenty-three million dollars during the decade ending 1909. The same source of information is authority for the statement that Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Kentucky and Tennessee—with the addition of the adjoining States of Maryland, West Virginia and Delaware, produced in 1909 exactly 27 per cent of the fowls raised in the entire country.

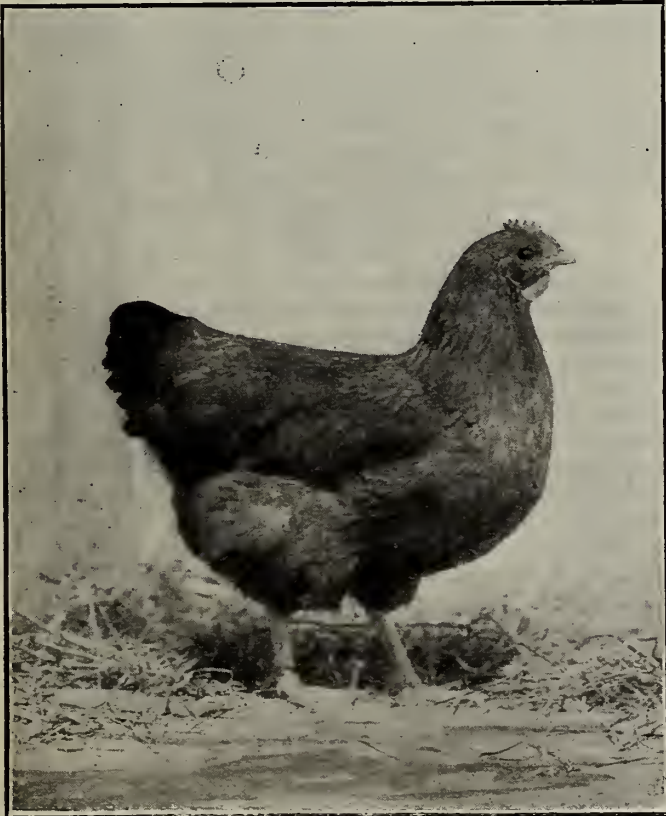
In this same territory the production of eggs increased during the decade 26.15 and the value of the egg crop increased 122 per cent. Consider that the egg crop of the Southeast, worth \$18,015,728 in 1899, ten years later, worth \$40,936,844, doubled and with several million dollars to spare in ten years. Isn't this rather substantial proof that the poultry industry of the Southeast is becoming rapidly a very important revenue producer?

Here are the census figures for 1899 and 1909 on egg production by the dozen, in the States specified:

| State | 1909 | 1899 |
|---------------------|-------------|-------------|
| Virginia | 35,100,693 | 25,550,460 |
| North Carolina..... | 23,556,124 | 17,704,020 |
| South Carolina..... | 11,049,468 | 9,007,700 |
| Georgia | 20,793,359 | 15,505,330 |
| Florida | 6,380,956 | 4,214,186 |
| Kentucky | 44,313,377 | 35,337,340 |
| Tennessee | 42,043,104 | 31,807,990 |
| Alabama | 22,234,713 | 18,778,960 |
| Mississippi | 20,542,487 | 18,942,070 |
| Total | 226,014,281 | 176,848,056 |

The comparative figures show an increase of 49,166,255 dozen in 1909 over the record of 1899.

The quantity of eggs produced in the Southeast increased during the decade at a higher rate than in the New England and Middle Eastern States combined; at a higher rate than in the New England and East North Central States combined, and at a higher rate than in the West



Another R. I. Red Beauty. Property of Buschmann-Pierce Red Farm, Carmel, Indiana.

North Central group of States. The value of fowls raised in the Southeast increased at a higher rate than in New England, the Middle Eastern, East North Central, or West North Central group of States.



S. C. Brown Leghorn, "King Edward VII," First, Memphis, Tennessee, 1912; First Lake Charles, Louisiana, 1912; First Texarkana, Texas, 1912 Head Yard No. 5. Bred and Exhibited by N. B. Spearman, Ida, La.

There are substantial basic reasons why poultry raising in the Southeast is receiving the attention to which it is entitled. This section has a moderate rainfall, short winters with practically no temperatures below zero; long, sunny growing seasons afford generous crops of varied feeds and allow poultry an open range nearly every month in the year; soils are particularly adapted to the health and comfort of poultry, and there are cheap lands and splendid markets. Certainly these constitute adequate advantages for the continued development of Southeastern poultry raising.

Poultry and egg shipments to Northern markets have increased greatly in volume since the Southern Railway inaugurated over its lines the "pick-up," or "concentration" system, by which cars are "cut out" at certain stations without extra charge to receive part carload lots. Thus a car may be partially filled and sent on to the next station, there to be filled by another shipper and forwarded to destination. Producers are thus enabled to get better carload rates, and to ship more conveniently.

The Southeast has a decided advantage over other sections in the matter of equipment and housing. The open front house of sufficient size to give the fowls room is all that is necessary, with three tight, single walls and a good roof. Expensive, double-lined houses are unnecessary. The south front is left open, with a wire netting over the opening and burlap curtain can be arranged to drop down on the colder nights.

A South Carolina poultryman writes that a first-class house to accommodate 100 fowls should not cost over \$35, including a good coat of paint.

In the question of feeds the Southeast has also a great advantage over other parts of the United States. Here poultry has good ranges and plenty of green stuff practically the entire year; an abundance of poultry feed in this section of three crops annually, insures a minimum cost for producing poultry and eggs. Corn, wheat, oats, rye, the clovers, alfalfa, cabbage, turnips, rutabagas, onions

soja beans, cowpeas, sorghum, kaffir corn, potatoes, sweet potatoes, peanuts, beans of all kinds, vetch, rape and numerous other crops suited for poultry do excellently in this section, and bran, oyster-shell and grit cost no more than in the North and West.

Indicative of the possibilities in all this country for poultry is the case of Morristown, Tennessee, and the territory surrounding that point. So important are the regular poultry shipments from this region that the Southern Railway operates a special poultry train from Morristown to New York City every week in the year and in busy seasons there are frequently two solid trains a week, carrying chickens, eggs, geese, ducks and turkeys to the East. In addition to these train-load lots there are hundreds of carloads of poultry and eggs shipped from this vicinity to the Eastern States and to the West Indies. In 1911 poultry shipments from Morristown were worth \$2,000,000.

During the Thanksgiving and Christmas seasons special

The same produce company that made the above offer in 1911 sold 100,000 pounds of broilers in a single order from one steamship company and at the same time had to refuse requests for an additional 500,000 pounds because the supply was not available. Here is a market open at a time when the farmer has little to do and when the work will not interfere with the regular farm routine.

Poultrymen here, as in other parts of the Southeast, have organized and hold annual shows, thus stimulating interest in purebred stock and modern methods. The introduction of better breeds is stopping the annual waste of thousands of dollars due to mixed and scrub stock which will not produce the yellow-legged, white bodied poultry demanded for fancy trade.

One enterprising poultryman of Hamblen County, Tenn., has a flock of 1,200 Single Comb White Leghorns. He sells an "all-white, sterile, sanitary egg," that brought the last week in November, 1912, 44c per dozen. These eggs sell for from 23 to 55 cents per dozen, averaging four months in the year 45 cents and three months 25 cents. The average expense of his farm is placed at \$75 per month and his average profit in 1912, after deducting the expense of installing equipment, is given at \$125 per month. Enough cockerels, breeding stock and eggs for hatching were sold in 1912 to pay for the plant, including houses, incubators and brooders.

In the valley of Virginia and in the Southwestern part of the same State, in Piedmont and Western North Carolina, where sunny Southern slopes make ideal locations for poultry houses; in South Carolina, Georgia, Florida, Alabama, Kentucky, Mississippi and Tennessee, conditions are favorable for poultry raising and the industry is growing in importance, as demonstrated by official figures.

A college graduate in South Carolina, capable of doing first-class executive work along any of the various agricultural lines, was recently quoted as saying: "I am in the poultry raising business because I find pleasure in the work; I believe in chickens. In this commercial age I believe that poultry rightly handled will pay a greater percentage on money invested than will most of the ordinary business investments. I believe that genuine enjoyment and satisfaction await the person who makes of this business a careful study. I particularly believe in farm poultry, in the vigor and vitality of the country fowl and in its ability to make good."

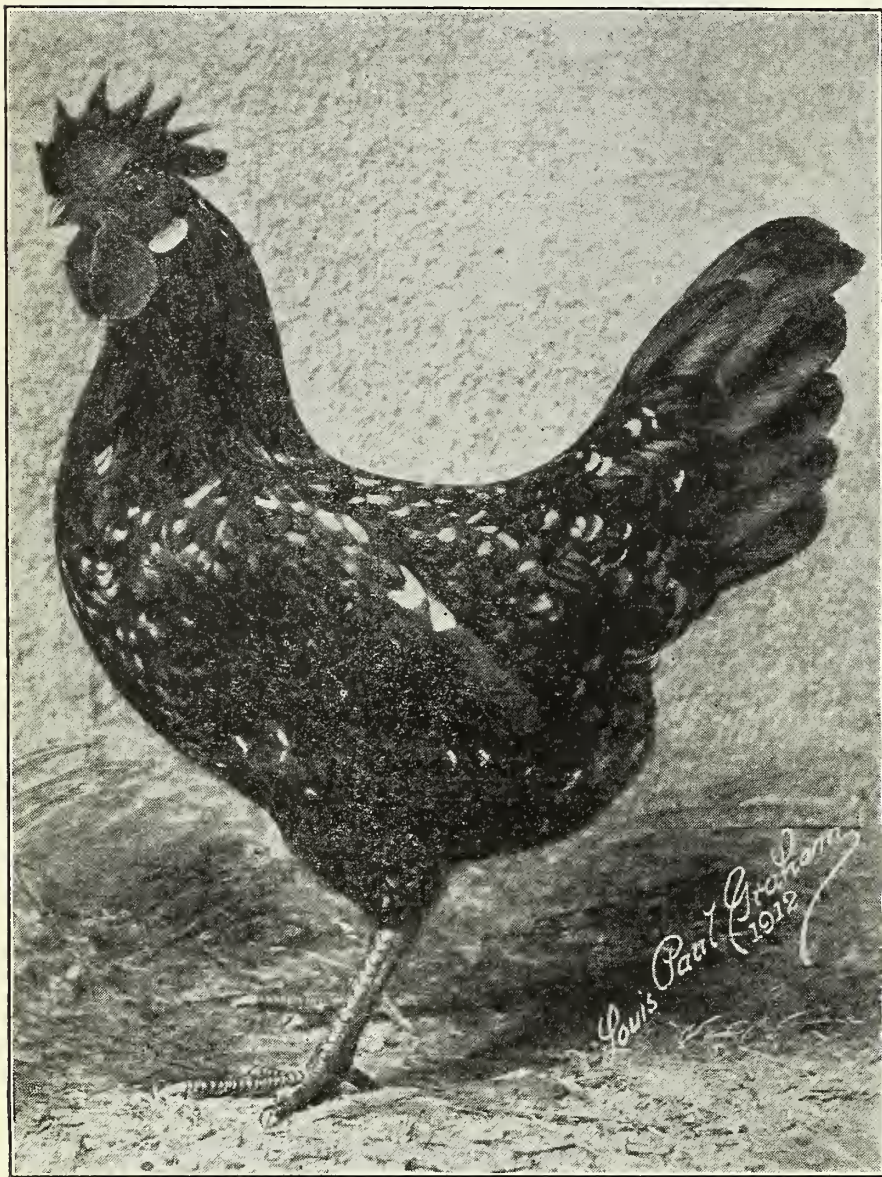
Around Hickory, North Carolina, and between Salisbury and Norwood in the same State, there are numbers of poultry farms, shipping extensively to nearby markets. From Murphy, North Carolina, approximately \$100,000 worth of chickens are shipped annually to Southern points.

The winter movement of eggs from Mississippi is important. In a dozen counties in the Northeastern part of the State great progress has been made in the past few years and the midwinter shipments to eastern and seaboard markets have increased in volume each season. Shippers have worked constantly to improve the quality of the poultry throughout this section and in some localities high-grade stock is being produced. The strains among the farmers compare very favorably with some of the fine producing sections of the North. A good percentage of the supply moves on an f. o. b. basis or guarantee with an advance.

Instances of success with poultry could be cited in almost every section of the Southeast. There is the case of a resident of Hickory, North Carolina, who cleared during one year an average of \$44.70 a month from 40 White Orpington hens, finding at the end of the year that his sales totalled \$701.40 and his feed bill \$165, leaving a balance of \$536.40. At Charlotte in the same State is a breeder of White Indian Runner ducks, who declares the Southeast has dozens of advantages for duck culture which other sections have not. "Runner ducks may be hatched and reared successfully each month in the year in the South," he writes: "Housing is inexpensive, they thrive well and a duck hatched is almost invariably a duck raised." This man reports that he cannot supply the demand for eggs at \$5 and \$10 a setting, and stock easily commands from \$8 per bird up.

Then there is the interesting story of a settler from Oshkosh, Wisconsin, who went to Northern Alabama when

(Continued on page 384.)



Ancona Pullet, Winner at Madison Square Garden. Owned by H. E. Portrum, Rogersville, Tennessee.

trains of turkeys, alive and dressed, are sent to New York and other Eastern markets. The 1912 holiday shipments of turkeys alone from this region approximated in value \$400,000.

Yet with this volume of local business the supply has not kept pace with the demand. An investigation conducted by the commercial club at Morristown disclosed that generally the farmers lacked the modern equipment necessary to extensive poultry raising. To determine if a guaranteed market existed to warrant the investment of capital sufficient for up-to-date poultry raising establishments, the investigation was extended.

A local produce company agreed to pay 30 cents per pound for broilers between February 1 and May 1 and to use at least 15,000 each week, or 200,000 in the three months, in the aggregate representing to the producers \$80,000. The average cost of production is estimated at 15 cents a head for broilers that bring 40 cents under this scale, and the proposition represents a net profit of \$50,000 to the local poultrymen for three months' work.

Practical Farm Poultry House Construction

By H. L. KEMPSTER, B. S. A. Poultry Husbandry, University of Missouri, Columbia



THE SECRET of success in raising poultry is to provide conditions as nearly natural as possible. Such conditions the farmer-poultryman is in position to provide. With unlimited range at his disposal there is no need for him to crowd his poultry into small yards. Limited range encumbered with large numbers of division fences makes it impossible to give the poultry yards proper cultivation. This causes them to become filthy and unsanitary, a condition which is responsible for most poultry diseases. The success of poultry enterprises is usually measured by the extent of range provided for the purpose. Commercial plants which depend upon small yards are usually short lived. Better sanitary conditions would yield the farmer more satisfactory results.

Locating the Poultry House.

The most common mistake made in locating the farm poultry house is that of placing it so close to other farm buildings that the hens over-run the latter. The usual plan of locating the poultry house between the barns and the dwelling house is especially disagreeable since it encourages the hens to not only over-run the barns but the back porch of the house as well. This habit is encouraged by throwing the crumbs, table scraps, etc., out from the kitchen door. Under such conditions poultry keeping is not only unpleasant but impractical and the reader is urged to consider these points in the selection of a satisfactory site.

A low spot is unsuitable for a poultry house because surface water is apt to accumulate and damp air always settles in such a place. Land which is naturally wet, either because of the nature of the soil or because of springy conditions, should be properly drained. Muddy quarters cause fowls to consume large amounts of filth. This, in addition to the dampness of such a location, results in unhealthy flocks. There is also probability of the eggs becoming dirty, resulting in an inferior product even if thoroughly cleaned. A wind break should be provided which will not only afford protection from disagreeable winds but furnish an abundance of shade. If possible the house should be located upon a south or east slope. This is not so important, however, as convenience to other farm buildings. The location of a poultry house in an orchard is ideal if the trees do not shade the runs so that they remain damp. The trees furnish necessary summer shade. Often patches of corn may be utilized in a similar manner and in such a way as to render conditions sanitary and satisfactory.

Systems of Poultry Keeping.

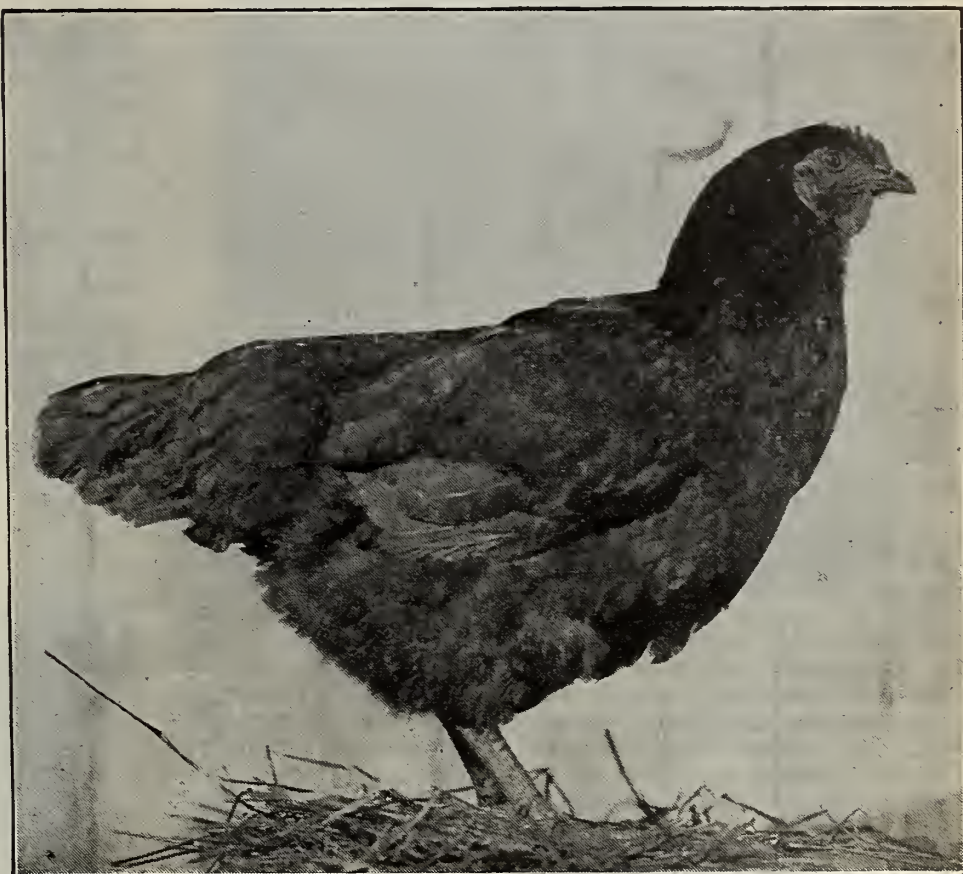
Poultry raising has resolved itself into two systems: the intensive system, involving houses of considerable size, or many houses, and a large amount of stock upon a small area; and the extensive or colony house system in which small houses are scattered over large areas. The former has advantages in that the labor resulting in the care of the flock, especially during the winter, is reduced to a minimum. In general the expense of housing is less than where fowls are kept in small flocks. It has the disadvantage of increasing the amount of yard care on account of the limited yard space. The intensive system with many small houses, as usually practiced on city lots involves an enormous amount of detail work, unpleasant in bad weather, and too expensive as a system to be practical except where more favorable conditions are impossible.

The extensive or colony house system necessitates much more labor in the care of the flocks during stormy weather when the birds are confined. It has the advantage, however, of unlimited yard space and yard fencing can be quite largely eliminated. Often the poultry can be permitted the range of fields after crops are started, without appre-

ciable injury to the crop, utilizing to good advantage the droppings which would otherwise go to waste. In some localities worthless land has been brought to a high state of fertility by this practice. The most healthful and economical method of raising the young chickens is by the portable house system. The houses are moved about the farm in such places as orchards, farm lanes, cornfields, wheat and barley fields after the grain has been removed. The shade, green food, bugs, worms, grasshoppers, etc., are much more conducive to a rapid, healthful growth than are the conditions usually found around the dooryard.

Poultry Pastures.

So far as possible yarding should be dispensed with. Yard fences are not only expensive but also restrict the proper handling of the ground surrounding the poultry house. With the commercial poultryman, however, yards are more or less necessary. The actual yard space requir-



Second Hen, Memphis, Tennessee, 1911. Bred and Owned by Jas. M. Frank, Nashville, Tennessee.

ed per bird will depend upon the care and attention given and upon the nature of the soil. In general the care is increased in proportion to the number of birds kept on a given area, so that from the standpoint of economy of labor, yard space should be liberal. Under average conditions 150 square feet should be allowed for each bird. Sandy soil is the most suitable for poultry pastures since it dries off quickly and readily takes up the droppings and filth. A sandy soil is desirable also because of the ease with which it may be cultivated. Two sets of yards should be provided so that the birds may be given the run of one while the other is being refreshed by cultivation and cropping.

Double yards or runs on both sides of the house, one of which can be reseeded while the other is occupied, is the most desirable arrangement. The garden may be made in one of these yards alternate years, a practice not only conducive to healthful conditions, but economical of yard space and the fertility furnished by the fowls. When double yards are used every other yard fence may be omitted, making a yard for each pen and affording a yard of double size for the more efficient handling of the re-seeding work. At the University of Missouri each pen in the continuous house is provided with one yard running to the south. On the north there is one yard for each three pens. This arrangement is most satisfactory where only one breed is kept.



Colony houses need very little yard fencing, although the fences are often used to permit rotation of crops on the surrounding ground. It is seldom necessary to yard farm poultry if the house is properly located. Confinement of poultry tends to destroy their value as a utilizer of waste products.

Young stock should not be confined with mature stock. The former are unable to get their proper share of food and the trampling to which they are subjected, seriously retards growth. Besides this, it is hard where mature stock is kept to have the yards and house as clean and sanitary as is necessary for successful brooding.

Permanent sod runs around a poultry house are undesirable especially where range is restricted. They very soon become unsanitary and afford satisfactory green food for only a short time each year. The exposure of the soil to the sunlight and frost by cultivation and cropping destroys the germs. The droppings supply the fertility for the production of an abundance of clean succulent feed. As far as is possible the pastures around the poultry house should be made to furnish feed, allowing the poultry to do the harvesting. In a yard of sufficient size, wheat and oats can be grown to maturity, furnishing green food in early spring and late fall and a large amount of grain food during the summer.

Shade.

The importance of shade cannot be over-estimated especially during the summer months. Fruit trees may be used to furnish shade in addition to yielding fruit. For quick growth, plum trees are perhaps the most satisfactory, although apple and pear trees are equally good when grown. The trees should be selected with reference to the size of the yard. Trees which have a tendency to grow straight up are best adapted to the narrow yard. Currant and berry bushes, or asparagus beds, furnish ideal quarters for chicks or even for old hens, while a yard of sunflowers or corn meets every requirement in the summer time.

Essentials of a Poultry House.

Simplicity and economy in construction, perfect dryness, good light and ventilation with due regard to comfort, are the essential features of a poultry house. Expensive equipment and artificial conditions are unnecessary and undesirable. Many poultry houses are lacking in the necessary amount of light and fresh air. Others have an abundance of these essentials but disregard the comfort of the stock. Plain houses with interior fittings of such a nature that they can be easily cleaned are desirable because in such houses it is easy to destroy vermin.

Width.

Narrow poultry houses are more expensive to construct for a given amount of floor space than are wide ones, besides compelling the birds to roost near the open or muslin front. Breeding pens are sometimes built only 8 feet wide, but no house should be less than 12 feet wide unless for special purposes. For the farmer, a house 14 feet up to 20 feet wide is more satisfactory and costs little more than one 8 to 12 feet wide. For flocks of one hundred hens a house 20 feet square is the most economical to construct. Houses are rarely seen which are wider than 20 feet.

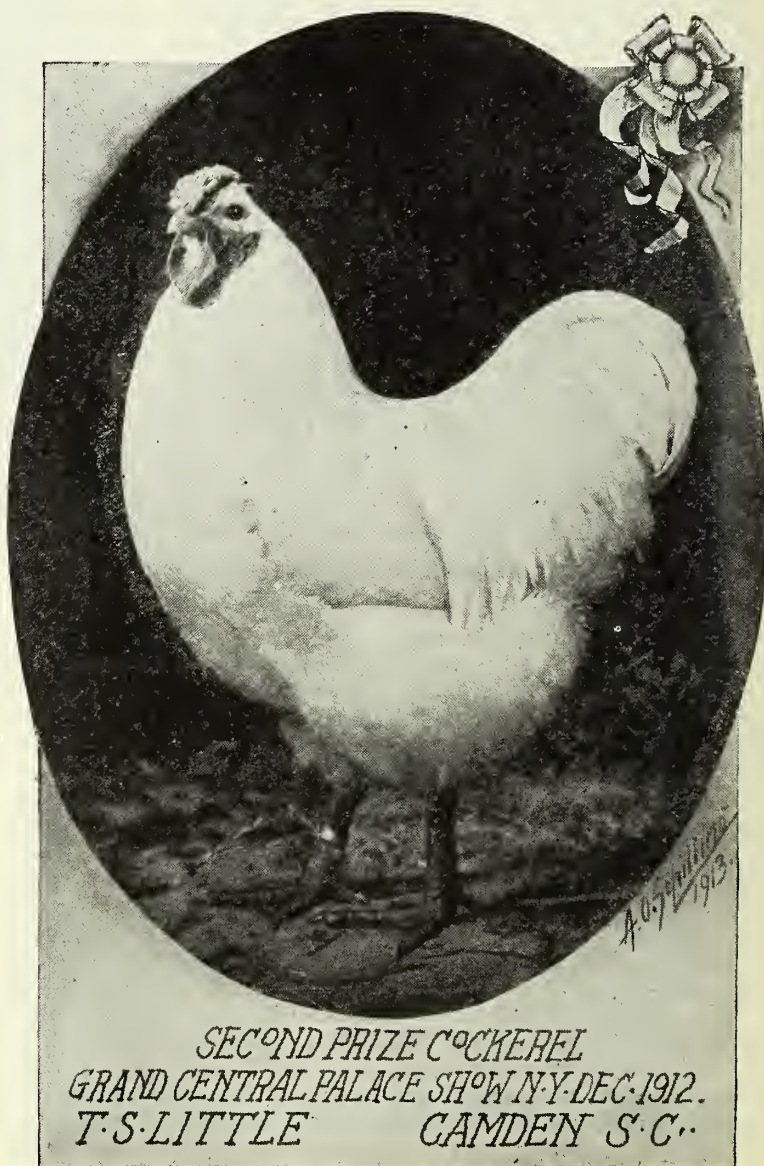
Height.

The height of a poultry house should be sufficient to enable a person to work conveniently. The wider the house the higher the walls should be in proportion. It is unnecessary to have the rear side of the house over 4 feet 6 inches high unless a flat roof is used. In houses which have their highest side facing the south, the front should be not less than 6 feet high. The other feature which determines the height of the south wall is the necessity of admitting sufficient light. During the shortest days in winter, when proper lighting is the most essential, the sunlight extends back a distance about twice the height of the windows. For a house 12 feet wide, 6 feet is the proper height for the top of the windows; for one 14 to 16 feet wide, 7 feet is the proper height and for one 18 to 20 feet wide, the height of the windows should be 7 feet 6 inches. These rules should certainly be observed where light is admitted only from the south side, but do not apply in houses admitting light from other directions.

Scratching Shed.

The modern poultry house is a product of evolution. The artificially heated house grew into disuse because of expense, and weakened vitality of the stock. This type was followed by the excessive glass front house which gave way to the house with the scratching shed. This was brought about because the need of fresh air became apparent. Various means were resorted to to secure this con-

(Continued on page 405.)



Practical Advice--There's Much in the Care

By MICHAEL K. BOYER, Hammonton, New Jersey



MTTERS not how good stock may be, if they have not the proper care they will be no better than mongrels. Poultry on the farm as a rule, receives in different treatment.

What does "Care" mean? It means a close watch on the business, provides every comfort, prevents disease by keeping the premises perfectly clean, never overcrowds and keeps the fowls

busy, sorts out the drones and gives the workers better attention. In short, care means using business principles in every sense of the word.

The farmer is not giving proper care when he allows his fowls to roost on trees, in wagon sheds, or on board fences; the proper care is not given if the appetites and conditions of the fowls are not studied.

System and regularity plan an important part in care; economy in labor, the saving of steps, the saving of muscle, the saving of time—all are important. Shiftlessness causes dear experience. There is a profit in anything we take care of. Success is according to management. Profits depend upon the quality and quantity of brain work put in the enterprise.

If a man performs his work in a mechanical way, he will not be apt to do it well. There are too many who go by "luck." They do not stop to think. They do not take notice of the little matters. They are always hurrying to get done. Too many assume too much work.

Dr. Casey says quality makes prices—but it costs considerable labor and brains to make quality. Good management curtails expense. Successful poultrymen use good common-sense methods; some others but little method; and alas, some no method at all. Hard luck is generally brought about by mismanagement. Disorder creates disgust. Study and care—and not luck and big talk—are elements of success.

To quote Judge Brown: "There are too many poultry-

men who let their enthusiasm go down as the mercury in the thermometer goes up." The men who make marked success in poultry-raising are those who never fag in their attention—those who know that the increased labor and close



"Enchantress" the Best White Orpington Hen in America. Winning First at New York and Baltimore, 1912. Owned by Aldrich Poultry Farm, Columbus, Ohio.

attention hot weather brings must be religiously observed; that is a critical time to let neglect creep in. The same precaution must be used when cold weather is here. It is the man or woman behind the hen, rather than the breed, that brings success.

Scrub treatment will bring about scrub results. The best paying breed is the one that is best cared for. Zeal in the prosecution of the work should be the characteristic of every poultry breeder.

In conclusion, it must not be forgotten that success depends upon management. Business attention given to a flock of properly housed hens would be a revelation to many, especially farmers.

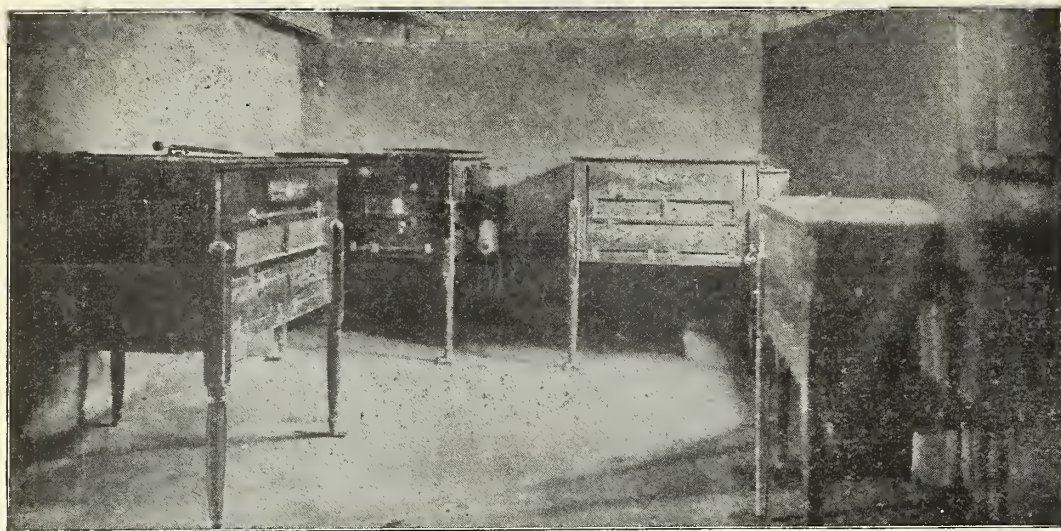
A poultry writer recommends that those living near hotels should arrange for the garbage, stating that in it there is such a variety of food that will be of untold value to hens. The fact is, that anything the average restaurant will refuse to jumble up for their customers is questionable food for fowls or hogs. In summer this refuse, when removed once a day, is unspeakably foul, and the one who moves it needs the nose of a scavenger. Fermented and decaying refuse from such places is dangerous, even to handle. In this garbage are often found pickles, sour cabbage, rotten potatoes, tainted meat and other stuff—even including coffee grounds—fit only for a manure pile. We cannot be too careful in what we feed our stock. Fowls should have perfectly sound food, or they will not enjoy perfectly sound health.

The mongrel goose is generally the result of a mating between a Canada gander and some dark colored domestic goose, usually an African or Toulouse. Sometimes these goslings are termed "mules" because of the fact that they are sterile. It is occasionally true that a mongrel goose when kept for two or more years will lay a few eggs, but there is no record that goslings have ever been hatched from eggs laid by a mongrel goose. It is difficult to fatten



WINNER OF FIRST PRIZE & CHAMPION SPECIAL MEDAL FOR BEST COCK IN SHOW PHILADELPHIA 1910 BRED & OWNED BY J. COURTNEY PUNDERFORD, FRENEAU, N. J. U. S. A.

Golden Bay V. is the Sire of 1st Pen Cock, Madison Square, 1911, and 1st Cockerel, Madison Square, 1911; also 1st Pen Cock, Madison Square, 1912-13. This male has sired more first prize winners in the past four years than any living Buff Leghorn Male. He is now 5 years old and as vigorous as ever. Heads Pen No. 3. Eggs selling \$15 per 15 eggs.



Incubator Room of the Aldrich Poultry Farm, Columbus, Ohio.

mongrels properly until the cool weather of fall when they fatten readily. They are never sold as green geese, being reserved for the Thanksgiving and Christmas trade.

The bill of the goose is provided with sharp, interlocking, serrated edges, designed to easily cut and divide vegetable tissues. The tongue at the tip is covered with hard, hair-like projections pointing towards the throat, which serve to quickly and surely convey the bit of grass and leaves into the throat.

The poultryman who follows a practical system does not complain of the work. System is a great labor saver in all occupations, and especially so in raising poultry. The man who has no regular method causes himself extra and unnecessary work, and it always "seems to pile up on him" at an inopportune time.

The market poulterer finds uniformity one of the greatest characteristics in pure bred poultry. There is more attraction in a coop of chickens all alike in size and color, than in a promiscuous lot, and they sell more readily. But we place no stock in the theory that the pure breeds give us a better quality of flesh; that is a matter of food and care. A mongrel properly fed will have better flavored meat than a pure bred improperly fed.

When fowls crowd at night, which is the case when the number quartered is greater than the capacity of the house, they sweat. This sweating causes the feathers to rot at the base giving them the appearance of molting. This explains why so many flocks look ragged in early summer.

It is a noted fact that the majority of cases where roup has become epidemic among fowls, the latter were crowded in tightly built houses, when the weather is very cold, and allowing the houses to remain closed all the next day. This creates a moisture which generates dampness, and the whole house feels very much like a vault. At night the house is more or less filled with dampness emanating from the fowls' breath, but if on the following morning the windows are opened wide this dampness will be dispelled. This is a great point in favor of the scratching shed plan of house.

If the law becomes generally effective, that cold storage and preserved eggs must be labelled and sold as such, there will be little if any damage done the poultry business. In that case they will not compete with the fresh egg market, and the latter will naturally get a better price. It is when the stored egg is allowed to compete with the fresh article that injustice is done to both the poultrymen and the buyer.

It takes from seven to nine months for a capon to develop its excellence. Those weighing six pounds command earliest sale, but nine to ten pound birds bring best prices. Caponizing is performed when the birds are about

two or three months old—before the comb develops.

Common baking soda is a great relief to fowls suffering from loose bowels. Put a teaspoonful to a half gallon of drinking water, daily.

The first purpose to which food is devoted is to supply wasting tissues and support of the body. All over that amount goes to the manufacture of eggs, providing the food is not of such a nature as to cause fat.

Salt in aiding digestion, also keeps the whole system in good working order. The blood will be kept free from impurities, and the fowls will be less likely to suffer from colds, canker or roup. Besides those, miserable wiry little gizzard worms will find it impossible to live in the salt-fed food.

Mr. Brackenbury feeds his salt in scalded oats. He allows a large tablespoonful to each eight or ten quarts of oats. The salt is sprinkled over the top of the oats, and then boiling water is poured over them, being careful that no more water will be used than the oats will readily absorb. The mixture is then stirred up well; the pail in which the oats are scalded is kept covered while they remain in it.

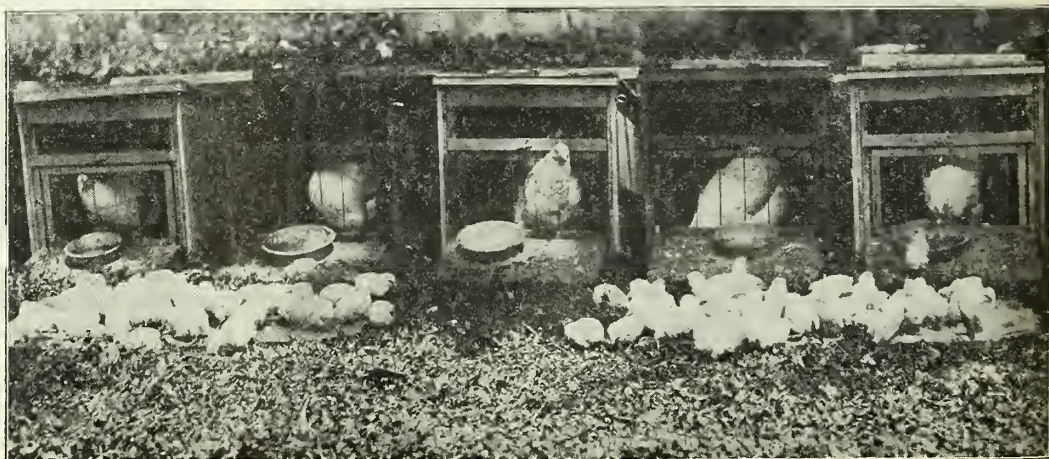
It would be better to wash eggs sent to market than to send them in a dirty condition. But washed eggs have no keeping qualities. The water appears to dissolve the gelatinous substance which seals the pores of the shell, and air is thus admitted and soon starts decomposition. The better way to treat dirty eggs is to take a woolen rag only slightly moistened with water and gently rub off the dirt.

The following method for determining the age of eggs is said to be practiced in the markets of Paris. About six ounces of common cooking salt is put into a large glass, which is then filled with water. When the salt is in the solution an egg is dropped into the glass. If the egg is only one day old it immediately sinks to the bottom; if any older it does not reach the bottom of the glass. If three days old it sinks only just below the surface. From five days upward it floats; the older it is the more it protrudes out of the water.

Color of yolk, quality of contents, and shape of eggs are all more or less governed by the food and feeding.

Biddy, the hen, will stand considerable thoughtful attention. She has a value to the American farmer equal to that of his wheat fields, and every day, as the sun sinks, there has been added to the store of national wealth nearly \$2,000,000. This is in the face of unsuitable housing and little by way of proper care. May the tribe of Biddy increase just as fast as the farmer learns how to give her the square hen deal!—Farm, Stock and Home.

On farms having high, dry land, which has a light growth of grass, and where a new breeding gobbler has lately been introduced, the largest flocks and the most thrifty looking turkeys are found.



Hatching Time—Aldrich Poultry Farm, Columbus, Ohio.

Some Scientific Principles on Poultry Breeding

By J. A. DINWIDDIE, New Market, Tennessee



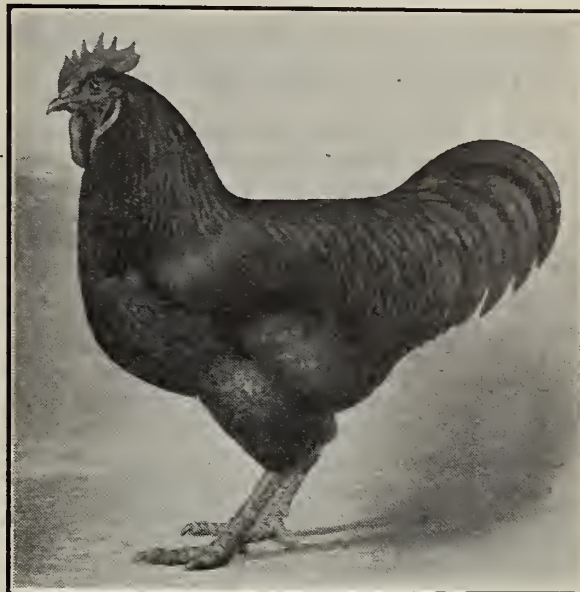
IN THE most simple forms of animal life, reproduction is by self-division, the separating parts being (normally) developed. In the self-division of simple animal forms the maxim of the breeder is, "Like produces like." In so far as we are breeders we aid nature to upbuild, or allow nature, or our birds, by their own ways and inclinations to descend, or by lack of knowledge of principles of breeding we allow our flock to deteriorate. The Standard of a breed or variety describes the assumed perfect type of every character of that variety. A written Standard only indicates general direction and bounds, and a guide for poultry judges and exhibitors rather than a complete guide for breeders. A general law of inheritance may be based on the rate of increase of a dominant character in a race, or on the decreasing reappearance of a recessive character.

If we have, to begin with, a pure-bred individual as near to perfect as we desire, and our work is not obstructed by unnatural environments, or failure for this particular individual to breed back the desired breed types, or the failure for the individuals mated with this male or female to breed the desired breed types or character, it is easy to fix or eliminate any single character, but in breeding poultry we have to fix and maintain many characters at the same time.

We have to take into consideration the particular breed we are breeding, the breed types, shape, size, color, prolificness, bearing always in mind constitutional vigor, and establish all of these breed characters as near as possible. Because a certain bird won all the first prizes at the different shows this season is no certainty that he possesses dominant character to transmit to his offspring the desired results. True, this is good evidence that he is a great bird, and that he surely has inborn tendencies to reproduce desired results, but bear in mind this particular bird may have won first over a bird that possessed far better qualities as a breeder, as bird No. 1 may have won over bird No. 2, say in head points, color, etc., and to have won by a small margin, say one-half to one point. But if we know that bird No. 2 possesses dominant character and can transmit to his offspring the breed types that we so much desire, that bird is the one to stick to.

To be a successful poultry breeder requires an intelligent understanding of the natural laws of reproduction for certain definite purposes. If we ever put poultry raising on an equal with other live stock breeding, we will have to observe these facts. Yes, it requires a lot of intelligent hard work, but the small farmer can attain more in breed-

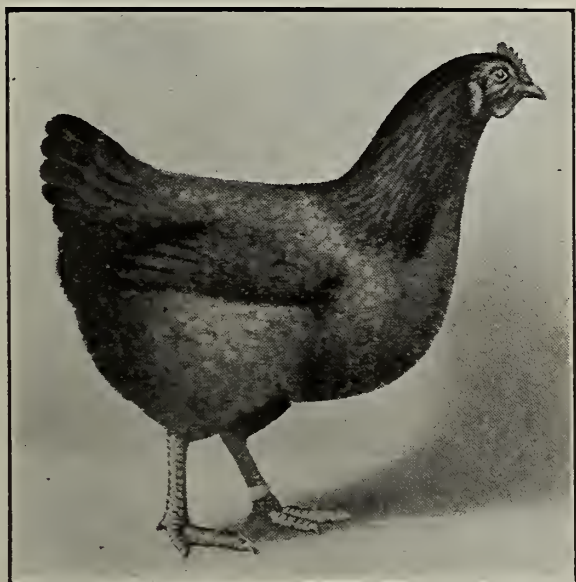
ing poultry than can the city lot man that takes pride in breeding poultry; from this fact we find no one line of animal breeding where, with so small capital, we can attain so much as we can in the poultry business. With



First S. C. Rhode Island Red Cockerel at the Big A. P. A. and Arkansas State Show. Awarded A. P. A. Gold Medal for Best Cockerel in Show, all Breeds Competing. Bred and Exhibited by W. F. Kilman, Bald Knob, Arkansas.

horse breeding or cattle breeding we can not get increase in numbers fast enough to give us the needed experience, or a proper selection of breeding stock to make it profitable to the small farmer or city lot man. Poultry first and hogs and sheep second, with small capital and limited land can be made profitable, and no one should be so foolish as to try to do things out of his or her reach. Neither should we be so selfish and careless as to breed a particular breed for the money only that is derived from the increase, as each individual should do his or her part in developing, improving and making these breeds better and more profitable.

Being an intelligent live stock breeder means more than knowing the principles of breeding, as all well-developed animals develop and get their growth from such foods as they can get. Growth in poultry, as with other live stock, is only a natural process, but this fact is true, poultry gets its full growth or should, in six months; the horse in three years or more; the cow in from two to three years. Thus poultry must have a more concentrated developing food, especially in mineral elements. Give a little thought to the chick in the embryo stage, in the egg for 21 days of incubation. Where does it get its nourishment for growth? Where does it get its minerals to make bone? These must be deposited in the egg to begin with. Poorly nourished chicks is often the reason why it can't come out of the shell. Instead of the setting hen or incubator's fault, we often blame the wrong thing, and aside from the fact of the profit in poultry breeding and rearing, a knowledge of the underlying principles of breeding farm animals, feeding and developing, it is worth all the trouble to know something of the natural laws of creation. Such knowledge helps to develop the mind, broaden our views, and we then realize more fully that this is a real world after all. I cannot see so marked a difference as some seem to make in a party who breeds chickens and a party who breeds pure-bred cattle or horses. True there is usually a difference between the two parties financially, and this last named factor should determine which branch of the animal industry the parties should engage in, for I believe that if an equal amount of capital should be invested in each business, the profits would be equal, but the point is, that the two interested parties cannot knock the same apple; at least the man with the small capital cannot, and it is more than foolishness on his part for him to try.



First S. C. Rhode Island Red Pullet at Little Rock, Arkansas, 1912, Awarded Gold Leg Band for Highest scoring Parti-Color Female in Show. Bred and Exhibited by W. F. Kilman, Bald Knob, Arkansas.

Do not lose sight of the fact that it takes as much persistent work and knowledge with one as the other. There may be a wide difference in the capital invested, but the knowledge of the two businesses must be on a par, and the man who ignores these facts may exist, but cannot make a profit that the progressive and intelligent breeder does; neither can he derive the pleasure out of the business that the progressive man does.

I have digressed some from my subject, "Some Scientific Principles on Poultry Breeding," but I want to impress the fact that the individual must possess dominant characters, as well as the old hen or rooster.

The Orpingtons--Not the Best But as Good as Any of Them



FERTILE THE HEN—When the Maple Hill Poultry Yards decided to breed Orpingtons—White, Black and Buff—it secured the best foundation stock obtainable, and as a result the beginning of the plant was easily and securely laid. We profited by the failure of a large per cent of beginners who insist on starting with cheap stock. No fowl in existence can excel the Orpington as an all-purpose bird, and in many instances they are far superior to some breeds.

If given attention their laying qualities are equal to the much-talked-of Mediterranean egg machines. We have four Buff pullets that commenced laying the fifteenth of October and have kept it up ever since. In November they laid 60 eggs, December 74, and when we count up the total for January it will go around the one hundred mark. Five days in December they were in the show room but did not fail to keep on shelling out the eggs. This is more than an average record, especially during the winter months, and emphasizes the fact that the stately Orpington is also an egg machine.

It is an easy matter to get the pullets to laying at six months of age. In our yards are a bunch of white pullets that were hatched the first of July and they commenced laying the 25th of December. Don't pay any attention to the fellow that tells you summer-hatched chickens are a

dead expense during the whole winter. Our experience has taught us better. With a little practical attention they can be made as valuable as the early hatches.

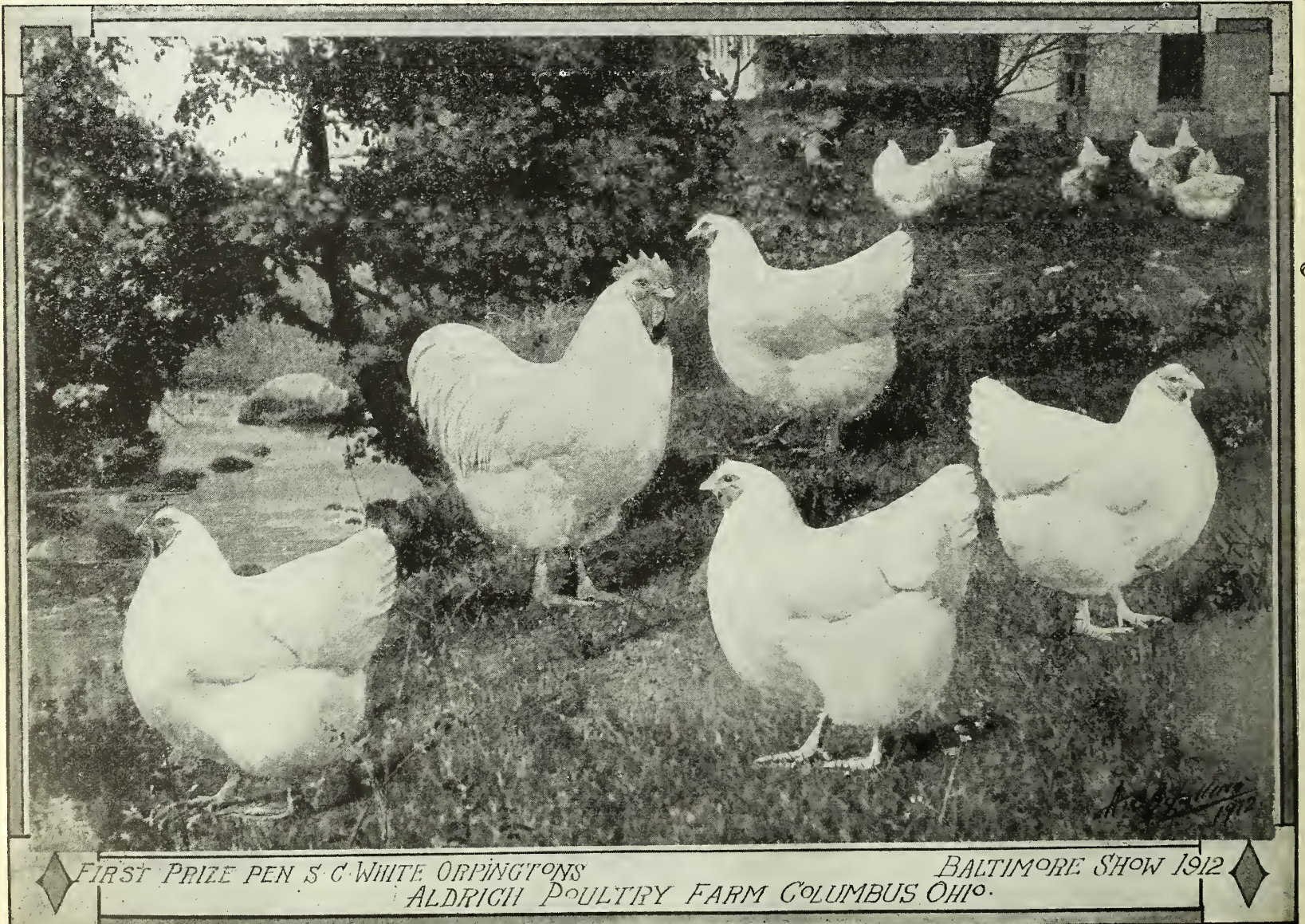
Much complaint is heard from many poultrymen that chickens cannot be raised in mid-winter. This is a mistake. We raise them at this season of the year, and they are the most hardy chickens that we have. We have quite a bunch of each variety coming on and they are certainly strong and vigorous. No trouble to raise them in winter if you will fix up a little. We have the home-made brooder with the Cyphers hovers. A small run is made for them to come out when the weather is good, and how they enjoy a frolic in the sunshine!

The process of feeding for rapid development is simple and not very expensive. After they are 36 hours old we feed rolled oats on a layer of sand in the bottom of the brooder. This method of feeding is followed up by giving prepared chick feed, egg bread, beef scraps and sprouted oats. A mixture of wheat bran and ground oats are in front of them all the time. If this method of feeding is followed it will guarantee quick growth which is very essential if you expect to raise chickens for a profit.

Fertile eggs in winter is a puzzling question to a great many breeders. With our method of feeding we never experience any trouble along this line. Our penned birds are fed prepared hen feed, oats, table scraps and beef scraps. Each lot is sowed in winter oats or rye, which furnishes an abundance of pasture. If fertile eggs are desired the winter pasture must not be neglected.

If your chickens have been a disappointment it is more than likely your fault. Use a little common sense and spend more time in looking after biddies' welfare and it will not be long until you can note a marked difference. Nothing responds more quickly to good treatment than Miss Hen.—Felix Creasy, Lexington, Tennessee.

The condition of the bowels is the best indication of the fowl's health. When the droppings are more or less hard, of a dark brown color, capped with white, we know the fowl is enjoying the best of health. But when they are watery and yellow, indigestion, if not liver troubles, are the causes.



FIRST PRIZE PEN S C WHITE ORPINGTONS

ALDRICH POULTRY FARM COLUMBUS OHIO.

BALTIMORE SHOW 1912

Blue Andalusians--As General Utility Fowls

By J. McD. GAMEWELL, Newry, South Carolina



HOW OFTEN are we Blue Andalusian fanciers confronted, with the question "What are these birds, called Blue Andalusians, really like, and what are they good for?" Now, gentle reader, this would not be so bad if coming from one who does not know that there even exists so valuable a work as the American Standard of Perfection; but we even sometimes find supposed fanciers who regard Blue Andalusians as somewhat of a myth.

Blue Andalusians, as all true fanciers should well know, are Standard Mediterraneans, coming originally from a province of southern Spain. They have been bred up to the present high standard of perfection in England, for the past fifty years, where they are very popular. In America at present we find the class rather small, even in our leading shows, owing purely to the fact that these valuable and beautiful birds have simply been overlooked in the wild rush to create something new.

Now from a utility, as well as from a fancier's view point, let us consider as to what Blue Andalusians really are.

In weight, as with the Minorcas, they have a Standard. Their shape and beautiful markings, where bred according to Standard requirements, immediately attract fancier and novice alike. They are graceful and very active; at the

same time thriving equally well in the city back yard, or on free range of the farm.

For egg production they rank with their sisters, the Leghorns. Only recently I had a correspondent to state that he had these birds side by side with White Leghorns, and by careful record they showed the same splendid results as egg producing machines. Their eggs are very large and white, being larger than the Leghorn egg.

In color we find the beautiful combination of red, white and blue. Bright red comb and wattles, white ear lobes, with rich blue feathering, delicately laced with a darker shade.

The youngsters are hardy, growing off rapidly into plump broilers. My first prize cockerel and first pullet at one of our greatest December shows, were hatched the 20th of last May. These pullets began laying early in December and laid while on exhibition.

Carefully compared with other varieties, where can we truly find these birds surpassed in the combination of grace, coloring and utility? Blue Andalusians have been waiting for us in this country for a long while, and we should now allow them to step in and take their rightful place in the front rank on the firing line of popularity here in America, as they have in England. Get together all you Blue Andalusian breeders and let us hear from you. Why not have a live club, that will educate our lovers of high class fowls, as to what they are missing in passing this grand variety by?

White Runner Ducks the Coming Fowl

THE Woman's College Poultry Farm has been testing all kinds of Indian Runner ducks, along with its three colors of Orpington chickens. It is our opinion that Runner ducks will outlay any hens that grow if properly fed and managed. The English Penciled duck is the original Runner that was imported from India into England about 70 years ago. In its native heath it laid tinted eggs as well as white ones. It was imported into America about 12 years ago and has become very popular on account of its great laying qualities. The American fanciers seemed to favor a lighter and more solid fawn and white color, and by selecting the lighter and more solid fawn colored ducks as breeders with light colored drakes, free from green on heads, made what was adopted as the American Standard Indian Runner ducks. Some of these lay tinted eggs; yet by selection white egg strains have been made. These ducks breed lighter in color by selecting light colored breeders, until finally an occasional pure white sport was found. These white ones were mated together to make the pure White Indian Runner duck, which is destined to be the most popular of all the duck family for several reasons.

In the first place it is prettier than the English Penciled or the American Fawn and White. White birds are more catchy and taking with the public. They breed truer to color than the Fawn and White or Penciled duck.

Another good quality is the White Runner was never known to lay anything but a beautiful white egg. Some think it is a better layer than either of the other two kinds of Indian Runner ducks, but we find that they lay all about the same when carefully selected as to type. It is significant that our first pen of White ducks and first pen of English Penciled and Fawn and White all laid better than the second or third pens of each kind and all laid about the same. This goes to show that there is much in type that gives laying qualities. In other words, our best show birds were also our best layers. It pays to get one's start from the very best and highest priced pens. If a beginner can't afford to buy high-priced birds then get eggs from the best pens. It is cheapest in the end, for they are best layers, though they all came from the same flock. We grade ours in first, second and third pens.

There is a great future for the White Runner. Just as the White Leghorn has become the leading color of the Leghorn family, so the White Runner will doubtless be the leading color of the Runner ducks. They are higher priced and therefore more profitable. They out lay hens and will live on coarser food, require less housing and less fencing, less cleaning of houses. They have no contagious diseases, such as roup, cholera, etc. They will figure con-

spicuously as egg producers in the future of America.—J. W. Beeson, A. M., LL.D., Meridian, Miss.

Brown Leghorns of To-Day

A GOOD deal has been written recently about the good old time Brown Leghorns and a great deal that is true has been brought out. The old-timers were good enough in their day and time.

The up-to-date Brown Leghorn is a living and most beautiful monument to the skill and scientific breeding of this very popular variety.

One who is really interested in the improvement of the Browns has only to refer to the Standard of 20 years ago and compare the ideals of perfection with present day ideals as shown in our latest Standard of Perfection to appreciate the marvelous improvements which have been made in type, carriage and coloring.

I have been breeding Brown Leghorns, exclusively, for more than twenty years. I started out with the best blood lines I could secure anywhere, and must say that the Brown Leghorn of today, to my mind, is far superior to the old time Brown Leghorn in every way.

The laying qualities of the Brown Leghorn is more a matter of breeding than anything else. Some few years ago I tried pushing some March-hatched pullets to see how early they would begin to lay. I found that the first one began to lay at 4 months 10 days of age, the others began about ten days later.

I find that my "Brown Beauty" pullets generally begin to lay at from 4½ months to 5 months of age when properly handled. I also find that I get many more eggs during the year from the present day Brown Leghorns than from the old time kind twenty years ago—we are never without fresh eggs at our house.

It is true that double mating has brought the present day Brown Leghorn into discredit with some of the old time fanciers and breeders of Brown Leghorns and has caused a great deal of confusion with amateur breeders, and those who were inclined to hang on to the good old way of mating.

I will admit that it is very much more difficult to produce good specimens of the Brown Leghorns of today than it was the old time Brown Leghorn of twenty years ago; but the breeder of today who is able to produce specimens of high quality is fully compensated for his labors, as the demand for high-class exhibition Brown Leghorns of today is far greater than the supply and those who are very anxious to make a reputation at the big poultry shows will pay high prices for first prize winner Brown Leghorns of to-day.—J. H. Henderson, Knoxville, Tennessee.

THE
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A. P. A. Candidates Nominated

JUST as we go to press, we are in receipt of a statement from Election Commissioner O. L. McCord, showing the five candidates for each office receiving the highest number of votes, and the number of votes cast for each nominee for all officers of the American Poultry Association. The statement follows:

| | |
|--|------|
| President. | |
| E. E. Richards, Cedar Rapids, Ia..... | 554 |
| Reese V. Hicks, Topeka, Kan..... | 313 |
| E. B. Thompson, Amenia, N. Y..... | 213 |
| Henry Steinmesch, St. Louis, Mo..... | 64 |
| C. D. Cleveland, Eatontown, N. J..... | 45 |
| First Vice President. | |
| Jos. Russell, Toronto, Ont..... | 304 |
| S. J. Hopper, Dallas, Texas..... | 271 |
| W. C. Cleckley, Augusta, Ga..... | 62 |
| C. D. Cleveland, Eatontown, N. J..... | 35 |
| U. R. Fishel, Hope, Ind..... | 26 |
| Second Vice President. | |
| W. C. Cleckley, Augusta, Ga..... | 372 |
| John A. Murkin, Nashville, Tenn..... | 37 |
| S. J. Hopper, Dallas, Texas..... | 36 |
| L. L. Haggin, Lexington, Ky..... | 33 |
| L. B. Audigier, Knoxville, Tenn..... | 20 |
| Secretary. | |
| S. T. Campbell, Mansfield, Ohio..... | 1238 |
| John A. Murkin, Nashville, Tenn..... | 195 |
| Theo. S. McCoy, Springfield, Ill..... | 11 |
| H. B. Hark, Glendale, Ohio..... | 2 |
| S. A. Merkley, Buffalo, N. Y..... | 2 |
| Executive Board. | |
| W. C. Denny, Buffalo, N. Y..... | 821 |
| C. D. Cleveland, Eatontown, N. J..... | 663 |
| U. R. Fishel, Hope, Ind..... | 608 |
| T. E. Quissenberry, Mt. Grove, Mo..... | 482 |
| S. A. Merkley, Buffalo, N. Y..... | 193 |
| A. A. Peters, Denver, Colo..... | 132 |
| S. J. Hopper, Dallas, Texas..... | 111 |
| Robt. Seaman, Jericho, N. Y..... | 111 |
| G. M. Curtis, Buffalo, N. Y..... | 83 |
| Richard Oke, London, Ont..... | 77 |
| F. A. Kummer, Butler, Pa..... | 59 |
| A. E. Martz, Arcadia, Ind..... | 37 |
| Lewis G. Heller, Bridgeton, N. Y..... | 34 |
| J. M. Parker, Creston, Mont..... | 21 |
| L. P. Ludden, Lincoln, Neb..... | 18 |
| Place of 38th Annual Meeting. | |
| Atlantic City, N. J..... | 537 |
| Detroit, Mich. | 376 |
| Chicago, Ill. | 118 |

| | |
|---------------------|----|
| Boston, Mass. | 17 |
| Buffalo, N. Y. | 16 |

Time of Holding 38th Annual Meeting.

| | |
|------------------------------|-----|
| Second week of August..... | 565 |
| Third week of August..... | 89 |
| First week of August..... | 71 |
| Fourth week of August..... | 35 |
| First week of September..... | 42 |

The statement shows that some of the best-known men connected with the Association have been nominated and the affairs of this body will be in safe hands, no matter who is elected. It is a safe conclusion, however, to say that no doubt the chief officers for the ensuing term will be those who received the greatest number of votes in the nomination.

We wish to announce that while Mr. L. B. Audigier highly appreciates the honor of having received a sufficient number of votes to allow his name to appear on the regular ballot as a candidate for Second Vice-President, he will not stand for election, and his name will be withdrawn. Mr. Audigier has been in Europe for more than a year and will not likely return to America soon, as he is desirous of spending some time this year studying poultry conditions in France and Italy, and this fact alone would be sufficient grounds for his withdrawal from the race.—E. M. G.

Our Pigeon Department

Few people realize the advancements that have been made in the past ten years and the extent to which the pigeon industry has grown in that period of time. For that reason, commencing this month, we have decided to devote one or more pages of the *Industrious Hen* to this breed of birds, believing that at least a number of our readers are pigeon breeders, and others are likely to become so, and that a section devoted to the pigeon industry will be not only interesting but instructive as well.

We have secured the services of Mr. John A. Porter, of Porterdale, Ga., an experienced breeder of high-grade pigeons, who will conduct the pigeon department, and any communications for publication pertaining to pigeons, should be addressed to Mr. Porter.

In addition to the news items, we propose to furnish readers of this section with articles from time to time written by breeders who have made a success of raising pigeons both from utility and fancy standpoints. These columns however, will be open at all times to the subscribers of this magazine who wish to give their experiences in pigeon breeding, or who have something to say of general interest on this subject. We also propose to publish from time to time articles on feeding, constructions of lofts, etc.

The article that appears this month is from the pen of Col. Frank Lee Miles, president of the International Carneaux Club, and who is unquestionably one of the greatest authorities on Carneaux in this country. Read it.

In a recent letter from Hon. T. F. Peck, Commissioner of Agriculture for Tennessee, he says that he feels confident that the Legislature will act favorably on the bill now pending authorizing the various counties to establish county demonstration farms. We certainly hope that the bill will become a law, because it will not only help the farmer, but poultryman as well. Commissioner Peck is a practical poultryman and is a friend to this branch of the live-stock industry. He recognizes its importance to the farmer and promises to lend his aid to the advancement of poultry culture.

The result of the nominating ballots which has just been announced by Election Commissioner McCord, of the American Poultry Association, shows the great popularity of President Reese V. Hicks. Mr. Hicks was not a candidate for re-election and yet he received 313 ballots as against Mr. Richards, who received 554. A more fair-minded or capable man never graced the presidential chair than Reese V. Hicks.—E. M. G.

It is equally as bad to overfeed as it is to underfeed poultry. There should be regular hours for feeding, and never a feast today and a famine tomorrow be allowed. Avoid too much carbonaceous food. Carbon is oil, fat, starch, sugar, etc.—carbonaceous material.

Single Comb BROWN LEGHORNS

Winners of 4 firsts, 4 seconds, 6 thirds, at Meridian, Mississippi, and Atlanta, Georgia this season. These birds are all produced from the single mating plan. We are breeding birds with style, color and good large combs from a single mating. The hens also have the shape and combs that mark them as splendid layers. Eggs at \$1.50 per 15, \$7 per 100; baby chicks at 12c; stock at \$2.

Promptness and satisfaction our specialty.

STURTEVANT BROS., BROWN LEGHORN FARM

Box 12

KUSHLA, ALABAMA

Utility and Fancy Pigeons

By JOHN A. PORTER, Porterdale, Ga.

CARNEAUX—IF NOT, WHY?

A RESUME of pigeons and pigeon interests, not only in the fancy but utility world as well, will convince the careful reader that the same, like all other objects of interest, has taken a great change and that of a progressive nature.

We find the days of fancy with the "Tumbler" and "Fan Tails" holding the center of interest. The "Carrier" comes from days immemorial, and history of ancient events record their use as messengers.

Now the most common in sense of numbers and qualities was and is the Homer. It combines the quality of Homing (lover of home) and a bird of this kind once bought and acquainted with its surroundings, would never leave it, and as a rule, while it might fly to its neighbors loft, would return, like the proverbial chicken, "home to roost." In fact, the chicken must forfeit all claim when compared to Homers in returning to the old home with nightfall. It is a well established fact that chickens will cling sooner or later to where they get the best and most feed. Not so with Homers; nothing but fear can induce it to desert its adopted cote. In this they might have roosted over the mote, and appropriately, too. In open shed on bitter cold nights, showing beneath their feet "No matter how humble, there is no place like home."

The Homer is what writers term a "Made Bird" combining many good qualities. The homing instinct comes from the Carrier, and should be termed the 'Flying or Carrier Homer and Squab Homer' as for centuries back they have been the real Carriers. The squab breeding Homer has the qualities of the flying Homer, but owing to environment, etc., are more stocky and untrained for this ordeal. Confinement increases their size and weight. Pigeons, like race horses, must be bred and trained for their work.

Now while these are at the height of pigeon exaltations, the Carneaux is introduced on the scene in America, particularly in the States.

Possibly we may say with safety that there was not a pair known in America some fifteen years ago. If so, they were known to but very few. It was about this time, or possibly a little earlier (am not sure of date)

F.P.C. CHICK MANNA

Introduced 1884

The Original, First Offered and Leading Special Prepared First 10 Day Food

Starts CHICKS, TURKEYS, PHEASANTS, Healthy, Strong and Vigorous

A Complete Food. "They not only like it but thrive wonderfully on it."—M. K. Boyer.

Recognized unsurpassed. Sold by leading poultry supply dealers. Ask your dealer for it. Insist on having it.

1 lb. feeds 15 chicks, 5 lbs feeds 75 first week. Send for special introductory offer & Poultry Supply Price Lists.

F. P. CASSEL & SON, Sole Manufacturers LANSDALE, PA.

KILMAN'S SINGLE COMB RED QUILL REDS

Another sweeping victory in strong company. 1st, 2nd, 4th and 7th cockerel; 1st, 3rd, 5th and 7th pullet; 2nd cock; 1st and 2nd pen. Cup for best 15 Reds. Cash special for best 15 parti-colored birds, gold leg-bands each for best parti-colored male and female, and grand gold medal for BEST COCKEREL IN THE SHOW, all breeds competing, 12 regular and 13 special prizes on 21 birds entered. This record at the big A. P. A. meet and Arkansas State show at Little Rock. Get our mating list. Eggs, \$5.00 per 15.

W. F. KILMAN BALD KNOB, ARKANSAS

A HOME MACHINE FOR THE HOME FOLKS
MADE TO SUIT THE CONDITIONS IN THE SOUTH
Manufactured by

Southern States Incubator and Brooder Company

COLLEGE PARK, GEORGIA

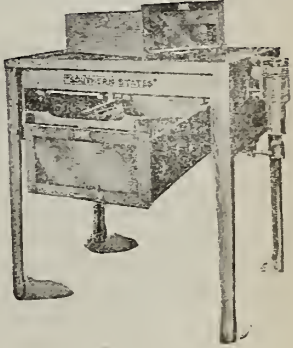
A Machine that is hatching big per cent of Ducks and Chickens. It is absolutely free from smoking or catching on fire.

TEMPERATURE
MOISTURE
VENTILATION } AUTOMATIC

There is no machine on the market today better in any way than this machine. Made from the best of natural oak grown in Georgia; highly polished, it is a substantial and beautiful piece of furniture. All inside heating equipment made from best grade of copper.

IT IS A MACHINE OF LASTING QUALITIES
 ORNAMENTAL QUALITIES
 EFFICIENT QUALITIES

Write us for our catalogue, describing fully each machine and brooder, with prices. Don't buy until you have investigated our machine.



that a Catholic priest, knowing of their popularity in France and Belgium, brought over with him a few pairs as an experiment. Out of this

grew a great demand for the same. The consequence has been that not a loft of prominence and of progressive ideas but what contains some speci-



The Carneaux.

BLACK BUFF WHITE ORPINGTONS

ALL PENS HEADED BY PRIZE WINNERS. Book orders for eggs now and get the purest blood and breeding of England and America. 15 eggs \$10.00. Write today for catalogue.

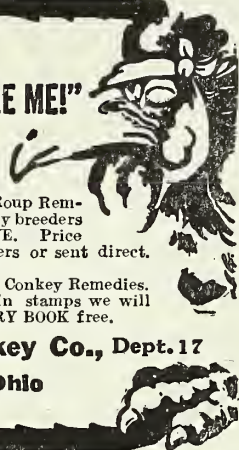
MAPLE HILL POULTRY YARDS Creasy & Denver LEXINGTON, TENNESSEE
Proprietors

"DON'T WORRY! CONKEY WILL CURE ME!"

CONKEY would like to hear from poultry raisers everywhere who dread loss from ROUP. Your money back if Conkey's Roup Remedy EVER fails you. Many breeders use it as a PREVENTIVE. Price 50c and \$1.00. All dealers or sent direct. Get this NOW.

Send for complete list of Conkey Remedies. If you enclose 4 cents in stamps we will mail you 80-Page POULTRY BOOK free.

The G. E. Conkey Co., Dept. 17
Cleveland, Ohio



mens. Starting with the Atlantic they reached the Pacific, thence from the Lakes to the Gulf, and the great cry was Carneau for squab purposes and later, the realistic Carneau for fancy. In every case where the genuine Carneau has an opportunity to demonstrate its merit as a squab producer, in size, weight, and palatableness, in fact in all points of virtue that tend to make them desirable, they hold predominance in the minds of managers and proprietors and have become a staple fixture. To those who may not give credence to the above, let them test same by trying to buy and they will be fully convinced. In this alone we may find our writings verified.

In our extensive travels and studies we find some States in the South, which if they have them, fail to bring them out in fancy, etc., by failing to exhibit them so that others might benefit by their experiences.

While on a visit to Atlanta, Ga., we visited their "Fair" (possibly their county fair,) and while fowls of all kinds were well exhibited and had good and suitable space, we found all pigeons (which were few in number) stuck away back in an undesirable part of one of the buildings. Knowing there must be a cause for such a state of affairs we looked up the superintendent who, in reply to our queries, stated: "They did not encourage them much," (which I could see before he made his statement.) I then asked him "Why he did not cut them out entirely," he replied, "In a big affair like this we must get all the receipts we can and do not believe in paying out on pigeons, etc." I then asked him, "Why he did not study it over and make it pay." His reply was, "How?" I stated, "Give them the same recognition and returns that you do other fowls;" again he says,

"BEST IN VIRGINIA"

Single Comb White Leghorns

I now own the Birds that won silver cup and best display, Baltimore, Md., Jan., 1912; silver cups and best display, Richmond, Va., Jan., 1913. Eggs from these matings, \$5.00 for 15. Write me your wants.

W. R. TODD :- 426 North 6th Street :- RICHMOND, VIRGINIA

STRAWBERRY PLANTS

Send \$2.50 for 1,000 plants, Excelsior, Klondyke, Aroma and Gandy. Raspberry, Blackberry, Dewberry, Grapevines, etc. Cabbage plants ready now, \$1.50 per 1,000. Tomato, Pepper and Sweet Potato Plants ready April 1st.

JOHN LIGHTFOOT :- EAST CHATTANOOGA, TENNESSEE

HINTON'S POULTRY

Quality WHITE WYANDOTTES, S. C. WHITE LEGHORNS, BUCKEYES, BUFF COCHIN BANTAMS, PEDIGREED COLLIE DOGS. Baby chicks and eggs for hatching from select prize winners and great egg producers. A few good breeders and a choice lot of Collie puppies for sale. Write your wants; I can please you as to prices and quality.

MRS. H. P. HINTON :- Route 6 :- Box 87 :- DALLAS, TEXAS

"How?" I stated, "By advertising and encouragement." I also stated, "Show chicken men as little encouragement as you do pigeon men and they won't pay either." His reply was, "Perhaps you are right." At Macon, Ga., we encountered the same thing but a larger display of pigeons; but the same queries brought almost similar answers. When I asked of a pigeon man there why no Carneau were exhibited, he replied, "I do not know what they are," but stated, "sell me some and I will exhibit." In a talk later he remarked, "Why, if that is the Carneau, then it is the bird I have been trying to get for some time." What the last few years have brought about I cannot tell, but trust those who know will take it up and tell us.

While on this Southern States matter will say: A few years ago Texas knew little about the Carneau. Today they number their lofts by the thousands and if they keep buying and pushing to the front as in the past, they will have more Carneau than any State in the Union. A commendable thing about this State is, it is not a question of dickering on price, but,—"We want the best or none."

This will be quite an advantage, not only to Texas, but to the entire South, as in the earlier days, in the absence of a Standard, etc., many inferior birds were put on the market and are even now going the rounds, which one may notice by certain 'ads' reading, "One

dozen," at the price of one good Carneau.

It pays to buy the best and in Carneau one should consult authority, or have those who know, buy for them. Invest a dollar in Club membership in the International Carneau Club and get their book "The Carneau" free, with the Standard and photographs of the New York winners.

In Fort Worth, Texas, in March, and at the Southern International Poultry Association's Show in Atlanta this fall will be exhibited some fine specimens of Carneau, and we trust that every State south of Mason and Dixon old line, will see that they have recognition at all future shows and put the best birds to the front. You will find with proper entry of good birds they will soon be the center of interest. You cannot expect even this unless they are placed in a desirable location with plenty of light and cages; not stuck back in a dark corner where it would require the eyes of a cat or ferret to locate them. This we must demand and see that we get it.

The great query, "What commends pigeons to us more than the ordinary pet or fancy?" First, possibly fancy; but a fancy that does not pay its way is like a rented or mortgaged automobile. Yet, a fancy that fully pays its way and throws a nice balance on the proper side of the ledger is what we want. The utility of Carneau is acknowledged to be superior to all

other pigeons. In this then, we have a paying fancy.

I have stood in the midst of lofts containing every variety and specie known to man; then with unprejudiced eye studied their beauty, and with this experience can safely say that none surpassed and few equalled the Carneau.

The deep ideal red with its variegated shade and glimmer—the golden yellow, in its deep color reminding one of the days when gold was our ready purchasing commodity—before the days when it was possible for a few men under political favor to handle and control it all—the Rose Wings, both red and yellow, with their beautiful ornate markings in wings, of a color opposite to that of their body. These last named birds are rapidly coming to the front; the high price and poor markings held them back for a while, but some lofts are now producing some fine types. In fact the demand for red was so strong that it caused many to overlook the yellow and rose wings as not being so desirable. This was and is a great mistake, as no prettier sight presents itself to the lovers of the beautiful than a flock of reds, yellows and rose wings.

Now, Mr. Editor, in closing this article let me add that I sincerely hope our Southern writers will boom this great favorite and that she will hold her own in the Carneau world. To bring this about we must encourage the press, and what the press wants is your honest views in an experience of this kind. If parties do not have them now, urge them to buy. Let your motto be, "Buy Best, Breed Better." It is by far to your advantage to buy a few good ones than many questionable ones. Some may say, "What do you mean by questionable?" I answer, "The poor cross with inferior birds, etc." Buy by Standard as found in the Carneau and from reliable parties subject to examination, return, etc.

Shall be pleased to furnish any information desired relative to Carneau in general, the International Carneau Club, the Carneau Book with Standard.—Frank Lee Miles, Danville, Pennsylvania.

SOUTHERN FANCIERS ORGANIZE

On December 20th, 1912, in the Atlanta Auditorium Armory, The Southern International Poultry Association held a magnificent show of poultry

Norris' S. C. Buff Leghorns

Augusta, Ga., 1st young pen; 1st pullet; 4th hen. S. I. P. A., Atlanta, Ga., 1st old pen; 3d hen, 3 entries. Louisville, Ky., 1st old pen; 1st young pen; 1st pullet; 1st hen; 4 entries. Indianapolis, 1st old pen; 1st hen; 2d pullet; 3 entries. Thorntown, 1st four ribbons in every class. Eggs—\$10.00; \$5.00; \$2.50. Trap-nested.

C. V. NORRIS -- THORNTOWN, INDIANA

LANDIS CRYSTAL WHITE ROCKS

Are at their old tricks, winning the blues at both Indianapolis, Ind., State shows. January 11 to 17, 1913, they won 1st and 2d cocks; 1st and 3d cockerels; 1st and 4th pullets. February 3rd to 7th, 1913, 2d and 3d cocks; 1st, 2d and 4th cockerels; 1st and 5th pullets. If that isn't a killing, what is? Eggs from fine matings at \$8.00 per 15; also eggs from fine selected utility stock at \$10.00 per 100. None better. Quality is what counts. Twenty-one years a breeder. Order from this ad.

JOHN LANDIS -- -- -- EDINBURG, INDIANA



Let Chas. A. Cyphers Save You 50% On A Standard Buffalo Incubator

The Cyphers who is "The Recognized Authority" on Artificial Hatching.
The Cyphers who made Commercial Hatching Possible.
The Cyphers who discovered the Cyphers Principle.

The Cyphers whose Incubators Circle the World.

The Cyphers who will sell you his latest creation, the "Buffalo" at half the Standard Price.

Let Me Save You 50% My new Incubator, the Buffalo, fulfills the life-long demand of thousands of poultrymen. It offers all the quality of the best high priced incubators, at just half the price of any other incubator containing the Cyphers Principle.

Sterling Principles Maintained

Every vital principle that made my Original Cyphers a World Success is embodied in the Buffalo. The same three-compartment heater; the diffusive ventilation; and the sensitive and accurate regulator, combined with heavy insulation, and durable construction with refinements not included in the original.

Buffalo Incubators insure you big hatches of strong chicks that live and are easily raised to

make money for you.

I offer you an Incubator that is second to none in **Durability, Reliability, or Quality.** You can't get an incubator as good, no matter how much you pay. Nearly any incubator will hatch some chickens. The biggest profits are made by operating the **Buffalo**, which will hatch a strong and vigorous chicken from every hatchable egg.

Note My Low Prices

Offer No. 0—50 to 60 Egg Size—Ship. Wt. 65 lbs. \$10.50 | Offer No. 2—220 to 240 Egg Size—Ship. Wt. 130 lbs. \$19.00
Offer No. 1—110 to 120 Egg Size—Ship. Wt. 90 lbs. \$14.50 | Offer No. 3—340 to 360 Egg Size—Ship. Wt. 160 lbs. \$24.00

My Brooder Prices are Equally Low

The New Big 4—1440 Egg Capacity Incubator \$84.00

An Incubator—not a hatcher—occupies same floor space as any standard 360 egg machine. Incubating section run in conjunction with your present hatcher will increase its capacity by 1080 eggs.

Incubating section alone, 1080 egg capacity. operated with one lamp, costs but \$60.00.

Something New in Hovers

Buffalo Handy Hover \$8.00 = Buffalo Home Hover \$7.00

The Buffalo "Handy" is a floor level hover—sanitary—perfectly ventilated—heats easily—uses little oil—flame can be seen without stooping. Send postal for fuller description, or better, send along your order before we are over-sold.

Chas. A. Cyphers, President BUFFALO INCUBATOR CO., Buffalo, N. Y.
476 Dewitt Street

and pigeons. There were a number of prominent pigeon fanciers present, and in the course of the day they informally discussed methods of advancing the interests of pigeon breeding in the South. Messrs. Geo. Ewald, of Cincinnati, Ohio; Affleck, of Columbus, Ga.; Porter of Porterdale, Ga.; Reynolds, of Marietta, Ga.; Candler and Mills, of Atlanta, Ga., and Rolf of Experiment, Ga., were responsible for the meeting which resulted in the organization of the Southern Pigeon Association.

The fundamental reason for forming this Club was to advance in every legitimate way the interests of pigeon breeding in the South. We realize that this is a very broad undertaking, and that it will take some time to get into

perfect working order, but we also know that nowhere in the country is there a more progressive, more energetic, more enterprising, more willing-to-work bunch of pigeon breeders, than right here in Dixie. We believe that we have the material, and we know that we are going to do all that is possible to make the Southern Pigeon Association as helpful a club as possible.

Our plans for the beginning include a greater publicity campaign, to be carried on by the members at large. This will consist of frequent reading notices, and interesting, valuable articles devoted to pigeon raising, written by the different members and published through the daily press and poultry magazines. We plan not only to aid wherever possible, those already interested in pigeon breeding, but to develop an interest in others, and thus bring new faces into the fold of pigeon breeders.

In order to encourage the breeding of better pigeons, and of Standard birds, we will work to secure better recognition of pigeons at the various poultry shows held throughout this section. The strength of our organization will permit us to go before the officials of the poultry associations and instead of saying the personal "I" we will be able to say strongly "We" want "so and so" and these officials have already shown that they realize the meaning of this "we."

The officials of one of the most important Southern poultry associations have already promised us practically

The 20th Century Dual Purpose Fowl

MONMOUTH Single Comb BUFF and WHITE LEGHORNS

We have perfected in our strain the long-sought-for result, exhibition and utility combined. Champions of the South. Practically sweeping the decks in both varieties at Atlanta, Ga., December, 1912, also winning 1st pen Madison Square, New York, 1912-1913, for the fifth year in succession on BUFF LEGHORNS (our only entry) places the MONMOUTH STRAIN in a class by itself. Our BUFFS and WHITES are producing wonderful results on many egg farms the country over, and reports from Argentine Republic, and other foreign countries who breed the MONMOUTH STRAIN, are most flattering, which substantiates our claim that we have perfected in our strain the DUAL FOWL. Why hesitate and experiment when a tried and true article is within your reach? Join the ranks of Monmouth Customers and tread the path of success. Years of experience are back of our matings this season. They are not problematical, but assured facts. Our past records speak emphatically for our ability in this line. Send for our beautiful 1913 Catalogue and Mating List, which gives full description and prices of our matings and stock. Always address.

MONMOUTH FARMS J. C. PUNDERFORD, Owner **FRENEAU**, Monmouth N. J.
THOS. LOCKWOOD, Supt. County....

More Money from Poultry

NOW is the time to get in the money-making poultry business with one of my Successful Incubators—only \$6.75 up. With the "Successful" no experiments or trial hatches are necessary—you can be sure of success every time.

SUCCESSFUL INCUBATORS

(Life Producers)

SUCCESSFUL BROODERS

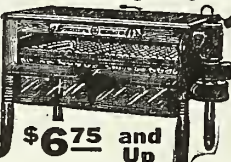
(Life Preservers)

give most chicks—raise more chicks—and are guaranteed with the strongest guarantee ever put behind any machine on the market. Don't buy an incubator that guarantees less than I do. Send your name now for catalog, low price proposition, guarantee, and Free Lessons in Poultry Raising that insure success.

DES MOINES INCUBATOR CO.

364 Second St., Des Moines, Ia.

NOTE—Book "How to Raise 48 out of 50 Chicks", 10c—Catalog is FREE. Get it.



\$6.75 and up

FOR SALE!

\$150.00 pen, consisting of 1 cock and 6 hens. Wm. Cook & Son's best WHITE ORPINGTONS. A great bargain to any fancier. Correspondence invited. MRS. JEROME TEMPLETON, Kingston Pike, R. F. D. 2, Knoxville, Tennessee.

THE SOUTHERN PLANTER

The South's Oldest, Largest and Best Farm Magazine, and THE INDUSTRIOUS HEN, both one year for 50c.

INDUSTRIOUS HEN CO., Knoxville, Tennessee

"XX" EGGS

are the fertile eggs. Testimonials stating 100 per cent hatches from such eggs. 10 solid pages of testimonials! You can pick them all out BEFORE you incubate. Our free circular tells the whole story. Tester, with best instructions for incubation, \$2.00. 30,000 in use. Sent by registered mail. If not satisfied by March 1, 1914, money refunded.

MAGIC EGG TESTER WORKS, Dept. G.

Bridgeburg, Can.

Buffalo, N. Y.

MAGIC EGG TESTERS

and up-to-date poultry supplies, carried by the OTTO SCHWILL & CO., Memphis, Tenn.

our own conditions in regard to the pigeons for next year's shows. This means better classifications, better premiums, a special superintendent to look after our interests, and better conditions generally. This will of course, benefit non-members of our association as much as the members, but in order to make membership advisable, we plan to offer a good line of specials, competition for which, will be limited to the members of the Southern Pigeon Association.

At a meeting held in the assembly room of the Piedmont Hotel, Atlanta, Ga., on February 15, 1913, officers were chosen as follows:

President—Asa G. Candler, Jr., Atlanta, Ga.

1st Vice-President—John A. Porter, Porterdale, Ga.

2nd Vice-President—Geo. Ewald, Cincinnati, Ohio.

3rd Vice-President—Mrs. A. P. Merrill, Natchez, Miss.

Secretary-Treasurer—Arthur F. Rolf, Experiment, Ga.

Executive Committee—G. D. Affleck, Columbus, Ga., Chairman; W. F. Mills, Atlanta, Ga.; Dr. Edgar Jackson, Dalton, Ga.; Roy S. Tippin, Ackworth, Ga.; J. W. Woodruff, Columbus, Ga.

The membership dues were fixed at \$1.00, payable on or before March 1st of every year. Every breeder interested in the advancement of the pigeon industry in the South, is urged to send a dollar today and thus line himself or herself up with the progressive breeders. One dollar will bring you a receipt for dues paid in full, and certificate of membership in good standing of the Southern Pigeon Association until March 1st, 1914. This entitles you to all privileges of the club, including the rights to compete for specials.

Address all correspondence regarding club matters to Arthur F. Rolf, Secretary-Treasurer Southern Pigeon Association, Experiment, Georgia.

(Continued from page 372.)

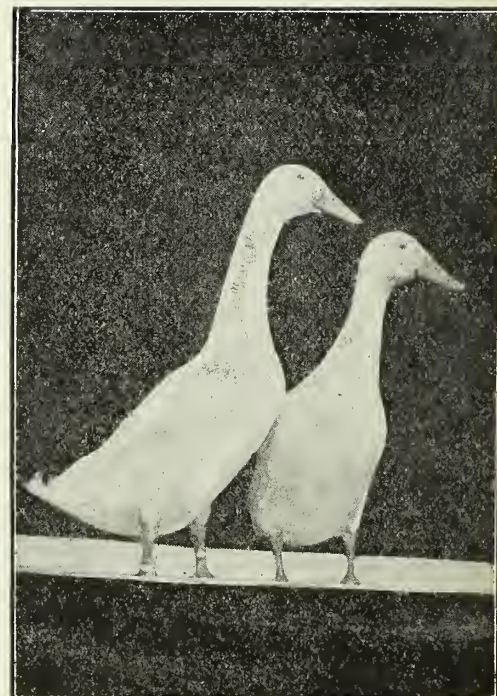
How Poultry is Rapidly Developing in South.

he had \$75 in cash, two horses, his wife and two girl children. He settled on 40 acres of land and cultivated only ten acres, from which he earned a

good living and educated his two daughters, both now happily married to prosperous business men.

Their father decided some time ago to abandon general farming and to devote more time to poultry raising. He bought 300 White Leghorns and has kept that average number ever since. He gets an average of 200 eggs daily, supplying by contract a hotel in a nearby city, at a net price throughout the year of 26 cents per dozen. The same hotel takes his culls at 50 cents each, although poultrymen buy his pure-bred birds at \$1 each. From eggs alone his hens net \$1.28 each, annually. It is possible to begin in the Southeast in the poultry business with \$500 and to make a good living, developing your business until it embraces the more expensive plant. It is a fact that in the Southeast almost any location, at almost any desired price, can be found.

Pure air is essential to the life of a healthy chick, and it can not be pure if it passes through an old, filthy incubator.



White Indian Runner Ducks. The Type that Wins. Bred and Owned by C. C. Shelley, Decherd, Tennessee.

S. C. WHITE LEGHORNS

EGGS \$1.50 per 15—From as fine a strain of layers as could be produced after five years of culling.

EGGS \$3.00 per 15—From a selected yard, mated with a prize winning cock.

EGGS \$5.00 per 15—From high-class show birds that have won 26 ribbons in 45 entries. Supply limited. No stock for sale. Price per 100 eggs on request. Satisfaction guaranteed.

ADAM FISHER

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CHARLOTTE, NORTH CAROLINA

SPECIALIST THE MOST SUCCESSFUL BREEDER.

ONE of the greatest mistakes that is usually made by the average person who takes up poultry keeping is in the keeping of too many varieties of chickens and often in selecting a variety that is not suited to their conditions and general surroundings. I know of many breeders who have failed to make money out of their venture mostly on this account, and it is a big mistake for any breeder, especially a novice, to undertake to perfect or to make a reputation with more than one variety. There is enough study and enough work to keep one variety at the top and build up a business with it to require the average time and attention that the ordinary breeder has to devote to his fowls. After one makes up his mind what is desired, either an egg producing variety or a meat producing variety, the best thing for him to do then is to select either a choice pen of birds from some reliable breeder who has line bred his birds for generations and invest in something good, as much as his means will afford, either in a pen of birds or in a few settings of eggs, and get started right.

It is by far better to put the entire amount into a few birds than for a few dollars undertake to buy a large lot of birds and at the end of a few years find that you will have to make the right start after all and have two or three years' of work thrown away. Any person with good care and attention, can usually raise from 100 to 200 splendid specimens from a pen of four to six females and one male if he gets them early and gets an early start and takes proper care of them, and by the end of the first year it will be no trouble to have a large flock and plenty of birds to select and mate all the pens you desire. It is by far better to start this way and select a profitable variety, know right where you are and what you have, than it is to take a chance on breeding a lot of ordinary birds and then selecting and mating up from these a few of the best of them.

A great many breeders will get one-half dozen varieties of chickens and not have as much invested in all of them put together as he should have invested in one good pen. The result will be at the end of the season the man who has one-half dozen or more varieties will find that he hasn't

enough first-class specimens of either variety to make a good showing or to make up his next year's breeding pens. He will have to buy the second year some birds of each kind and as so many have to be bought he can not afford to put in either one enough to get a really first-class bird. Therefore, it is far better to concentrate all your efforts into one breed and when you do have to buy invest the amount that you would have to put in one-half dozen different varieties in one and get a good one or the same in a setting of eggs. It is perfectly natural when a man raises 100 to 200 birds of one variety that he will have by far a much larger per cent of good birds from this number to select his winners or breeders or even birds to sell from than if he had to select from one-half dozen varieties a few good ones. It cannot be done and get the quality in your flock that a speciality breeder can, and today if the poultry journals of the country are looked over you will find in nearly every instance the most successful are the oldest breeders that are doing business now that have been in the business for ten, fifteen or twenty years are specialty breeders and have carefully improved their stock and prices accordingly, and are making a profit where they never would have done if they had started out with a lot of different varieties.

Unless a person gives their entire individual time and attention to the business and have studied the breeding for many years of the different varieties it is impossible for them to make a great success of more than two or three varieties, and even then the average man who is willing to pay a fancy price for the best will not patronize the man with several varieties and pay the price that he usually is willing to pay the man who breeds only one variety and has the best. This is human nature and applies the world over.

Another thing which is of far more importance than anything else, the man who has a large number of one variety can usually take care of large orders for either eggs or fowls and can furnish them quickly and promptly and many a time get a customer or get one that he would never have if he could not take care of his large orders. When a man writes to a breeder for 100, 150 or 1,000 eggs, or fifty to 100 fowls of any one particular variety there are but few breeders who can take care of orders of this

Nature's Favored Poultry Country

THE poultry industry in the Southeastern States during the decade ending 1909, increased over 100 per cent and in that year was valued at over \$40,000,000.

The advantages of short Winters, with practically no temperature below zero; long, sunny growing seasons, affording generous crops of varied feeds and permitting outdoor life the year around, and the little capital required, due to cheap lands and small expense for houses, are reasons why men from other sections and people located in this region are rapidly engaging in the poultry industry in the Southeastern States.

Southern markets pay a higher proportionate price, considering the small production cost, for poultry products than Northern and Western consuming centers.

At several large producing points are located extensive packing houses which pay very favorable prices for both eggs and poultry.

There are many excellent locations in the States of Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee and Kentucky for poultry farms. We can furnish you with land lists and all necessary information.

M. V. RICHARDS, Land and Industrial Agt.

Southern Railway

Room 51, Washington, D. C.

W. I. FROMAN

Crimson Rambler strain of ROSE COMB RHODE ISLAND REDS. One breed exclusively. Lynchburg winnings: 1st and 3d cock; 1st pen; 1st and 2d pullet, Dec., 1912. Richmond: 1st pen; 1st, 2d and 3d hen; 1st cock; 1st and 2d pullet.

Exhibition pen No. 1, per setting of 15 eggs, \$2.50. High-class utility pen No. 2, per 15, \$1.50.

Give me a chance to please you.

ROCK CASTLE VIRGINIA

STONESTREET'S White ORPINGTONS and PARTRIDGE PLYMOUTH ROCKS



My Birds are up to date and are now in my yard and customers reap the benefits of my years of successful work. At Nashville, Paducah, Shreveport, and Columbus, Ga., in strong competition, open to the world, my birds captured ninety-nine prizes, including 21 firsts, 23 specials and 10 Silver Cups. Eggs from these champion birds are to be had at \$10, \$15 and \$20 per setting of fifteen. Unfertilized eggs returned within ten days replaced without charge. I pay all express charges. Good utility stock always on hand.

MRS. REGINALD STONESTREET -:- -:- **Nashville, Tennessee**

Reference—First Savings Bank & Trust Co., Nashville, Tenn.

size with high-class birds or eggs. The result is if he can not take care of his business the purchaser either gets started with some other breeder or in many instances has to wait so long for his big order to be filled that they get disgusted and many a good prospective breeder who does not know much about the poultry business is lost and does not enter the business on this particular account. The person who has only one variety is usually prepared to take care of his trade more promptly and give far better value for the money than the man who has only a few of many different varieties.

It is less expensive, by far more profitable and more pleasure can be had out of poultry keeping for a specialty breeder if they would take more of these things into consideration and

think them over, and start a little different from what many have done in previous years. We have a lot yet to learn about the poultry industry and the best way to learn it is to profit by the experiences of others, and these lessons are presented to us every day if we would only take advantage of them.—Loring Brown, in Atlanta Journal.

NUTRITIVE VALUE OF AN EGG.

An interesting paper on the value of hens' eggs as food was recently read before the French Academy of Science, by Prof. Ballard. The professor, in the course of his address, stated that 25 per cent of an egg has a nutritive value. The remainder is water. The meat of ten eggs equals about one pound of meat. From the

SOMETHING TO GROW ABOUT

"HEN-E-TA"

About 30% Tri-Calcium Phosphate
Popularly Called **BONE ASH**

| | |
|-----------------------------|------------------------------|
| NO OTHER BONE NEEDED | NO OTHER GRIT NEEDED |
| NO MORE BONE CUTTERS NEEDED | NO MORE BEEF-SCRAPS NEEDED |
| NO MORE CHARCOAL NEEDED | NO MORE OYSTER-SHELLS NEEDED |

100 lbs. - - \$2.25
500 lbs. - - 9.00

Balanced Ration Formulas Free

If you will give us your dealers
name and address.

HEN-E-TA BONE CO.
NEWARK, N.J. DEPT. 8 FLEMINGTON, W.VA.

latter analysis, the inference is deducible that in certain seasons of the year, say when eggs are cheap—about 15c a dozen—they are cheaper than first-class meat. According to the professor the consumption of eggs in Paris—where there is an octroi tax—during 1898, amounted to 538,000,000. If the scientific analysis is correct, the number of eggs consumed equaled in nutritive value the meat from 168,000 steers.—Ex.

The poultryman who knows how to keep his fowls active, contented and happy is the one who will succeed in spite of all difficulties.

FOGG'S Single Comb WHITE LEGHORNS

ARE BRED FOR

Heavy Laying and Exhibition

Get our prices on breeders and young birds. We can please you. Our breeders this season are the finest lot we ever owned. Write us early about baby chicks and eggs for hatching. Our baby chicks are the kind that live and eggs for hatching will produce that kind. Send for Booklet and mating list now.

N. V. FOGG Box A **MT. STERLING, KY.**

SINGLE COMB RHODE ISLAND REDS

My mating for 1913 will consist of birds from First, Second, Fourth and Fifth pens Oct.-Nov., 1912, Georgia Poultry Association, Atlanta, Ga., and Third Pen Southern International, Dec. 16-21st, 1912, Atlanta, Ga., also pens headed by second cock and second cockerel. Eggs \$3.00, \$5.00 and \$10.00 per setting. Also stock for sale.

MRS. A. L. MATTHEWS -:- **REDAN, GEORGIA**

Buff Ply. Rocks, 'Giant' Strain Bronze Turkeys, Indian Runner Ducks

Quality backed by years of careful breeding. Our birds are winners in our hands and customers at Louisville, Cincinnati, Chicago, Boston, Indianapolis and Atlanta. If you wish quality, combined with honorable treatment, we can fill your orders and at prices most reasonable. Stock in either variety mated, no kin, and in any number. Write for prices, etc.

J. C. CLIPP -:- **Box 700, Saltillo, Indiana**

GABHART'S WHITE LEGHORNS

Have been line bred 10 years for fancy points; they also won 3rd place in the International Egg-Laying Contest at Frankfort. They have won in 9 of the very best shows for me and my customers. A few cockerels, \$2.00 each. Single birds, trios and pens. Eggs, \$1.50 to \$3.00 per 15; \$5.00 to \$16.00 per 100. Mating list free. **W. E. GABHART, Box M., BOHON, KENTUCKY**



First and Champion Male, National Meeting American Barred Rock Club, Charlotte, N. C., January, 1913. Also Winner Grand Championship \$100 Solid Silver Cup for Best Male Bird in Entire Show, and Many Other Specials. Bred and Owned by **M. B. Hickson, Lynchburg, Virginia.**

BABY CHICKS

M.F. & H.

200 EGG STRAINS

M.F. & H.

EGGS AND STOCK

Midlothian Strains are the best laying strains of S. C. White and Buff Orpingtons, White and Barred Rocks, Single and Rose Comb, Rhode Island Reds, White Wyandottes and S. C. White Leghorns. Our stock is TRAP-NESTED and BRED EXCLUSIVELY FOR EGG PRODUCTION. We have in our pens MANY CHAMPIONS from the Missouri Egg-Laying Contest, including "LADY SHOW YOU," with a record of 281 eggs. Prices: Eggs, 10c., 20c. and 30c. Baby Chicks, 20c., 35c. and 50c. Stock, \$2.00 to \$15.00. Write for 48-page catalog describing "BRED TO LAY" and MOST SUCCESSFUL poultry plant in this country. WE TRAP-NEST 800 HENS AND PULLETS ANNUALLY. HOME OF THE INTER-OCEAN MIDLOTHIAN FARM EGG-LAYING CONTEST.

MIDLOTHIAN FARM & HATCHERY TINLEY PARK ILL.

Our Breeders and Their Birds

By EDW. M. GRAHAM, Knoxville, Tennessee

IT PAYS TO "STICK TO" ONE BREED.

Some of our readers who are thinking of investing in S. C. Brown Leghorns may be interested to know that Henderson's "Brown Beauties" were first bred in 1890 and to-day are among the most popular strain of Brown Leghorns in the South.

Mr. Henderson informs us that stock and eggs have been sold and shipped to most every State in the Union and to British Columbia.

We are informed that "The Industrious Hen" is the only poultry journal advertising Henderson's Brown Beauties." It takes a "Brown Beauty" to beat a "Brown Beauty," and it takes a mighty good advertising medium to beat "The Industrious Hen."

Any one interested in securing the best in S. C. Brown Leghorns will do well to correspond with J. H. Henderson, Knoxville, Tennessee, the originator of "Brown Beauty" strain. It pays to stick to one breed and advertise in The Hen.

Midlothian Farms and Hatchery, Tinley Park, Ill., recently issued a handsome catalogue, which, to say the least, is very artistic. It fully describes the five strains of birds bred by this firm: S. C. White and Buff Orpingtons, Barred and White Plymouth Rocks, R. C. and S. C. Rhode Island Reds and White Wyandottes. These birds are trap-nested and are bred for winter layers. The catalogue contains various illustrations of the above mentioned breeds. Read the ad. of Midlothian Farms in this issue and before buying write for their catalogue, mating list and prices.

One of the handsomest catalogues and mating lists we have received this season is from Monmouth Farms, Freneau, New Jersey. This firm breeds only Single Comb Buff and White Leghorns, and they claim the Monmouth strains are unexcelled as egg machines. The catalogue is illustrated with pictures of their birds and poultry farm scenes. The chief illustration is the frontispiece, being a picture in natural colors of a trio of S. C. Buff Leghorns. Send for this catalogue and don't fail to read their advertisement in this issue of the Hen.

S. C. WHITE LEGHORNS



FARM-BRED STRAIN—Bred with inborn tendency to lay—long, deep bodies, low tails, pure white, healthy, vigorous. Bred and fed on scientific principles; reared under natural, congenial environments. I have bred this strain of birds for 10 years on the above described breeding principles. I make no specialty of exhibition stock, yet I have won my share of firsts, at leading shows. The chief points of merit of my strain of birds is constitutional vigor and high egg-production. 1913 breeding pens are made up of birds as good or better than ever before. Prices of Eggs from special pens, \$2.00 per 15; \$3.00 per 30; \$5.00 per 50; \$10.00 per 100. Special prices from free-range birds, \$1.00 per 15, and \$5.00 per 100. If further information is wanted, write; otherwise please order from ad., as this is an accurate and definite description of this strain of birds.

CHICK-A-DEE FARM, J. A. Dinwiddie, Prop., NEW MARKET, TENN.

JONES' WHITE WYANDOTTES

Have proven their quality by winning at Jackson, Grenada, Holly Springs, Meridian, Miss., and Memphis, Tenn. this season. Eggs from these grand winners \$3.00 and \$5.00 per 15; incubator eggs, \$1.50 per 15. Write for illustrated mating list.

CARRINGTON JONES,

Box H, HOLLY SPRINGS, MISSISSIPPI.

Little's ^{WHITE} Wyandottes

By their remarkable winnings at Columbia, S. C., Show, January 28-31, again prove their superiority. Won 1st, 4th cock; 1st, 3d cockerel; 3d hen; 1st, 4th pen; A. P. A. Gold Medal for best cockerel in the entire show; three of the five National White Wyandotte Club badges; also a number of other Specials. My birds have won from New York to Atlanta, in some of the hottest competition ever known in White Wyandotte classes.

Absolutely the Best in the South. Start right. The Best is the Cheapest.

T. L. LITTLE :- Box 534 :- CAMDEN, SOUTH CAROLINA

President S. C. Branch A. P. A.

SHOW DATES.

Fort Worth, Texas, March 18-23, 1913.
National Conservation Exposition, Knoxville, Tenn., Oct. 6-11, 1913.
Atlanta, Ga., Dec. 1-6, 1913.

In this issue you will find the display ad. of Mrs. P. T. Callaway, of Washington, Ga., breeder of Single Comb Rhode Island Reds. Her winnings last year were: Macon—First and second pen; first, second, third and fourth cockerel; second and fourth pullet; skeepstakes cockerel; largest and best display of Reds, and type and color special. Augusta—First, second, fourth and fifth pens; first, third and fourth cockerel; first hen; color and type special, and largest and best display. Atlanta—Fifth pen; first, third, fourth and fifth cockerel; third, fourth and fifth hen; fourth pullet; color and type special, and largest and best display. Hagerstown—Third pen, and fourth cockerel. If you contemplate purchasing some fine stock or eggs, write Mrs. Callaway before buying.

The most unique and the only cloth-bound catalogue and mating list we

THE SENSIBLE WAY TO MAKE HENS LAY, PLANT GIANT SUNFLOWERS

Heads from 12 to 72 inches, Nature's gift to fowls. Greatest Egg producing and condition food known. Try it! Secure shade, feed your Poultry Egg-Producing food, disinfect, and grow fuel all at one time. Reads like magic, but it is not, as all this can be obtained by sowing Grower Yoder's Giant Sunflowers.

Pestpaid Pkt. 10c. oz. 15c. ¼ lb. 35c. ½ lb. 75c.

Sow that waste piece of ground with "Giant Sunflowers," and keep your fowls in prime condition. Remember "It's the fowl that lays that pays." You can make all yours pay. Write for catalogue and further particulars. It's free. GROWER YODER, Sta. H, B. 6, Rcmulus, New York.

EGGS—INCUBATORS—COCKERELS

S. C. WHITE LEGHORNS

Four 160-egg Famous X Ray Incubators, almost new, \$10.00 each. Selling to make room for larger machine. Also thirty S. C. White Leghorn cocks one year old, \$1.50 each. Our stock comes from prize winners. If you want show birds or egg-layers, the healthy, vigorous, free-range, winter laying kind, now is your time to order eggs—eggs that will hatch. Our personal attention given to all shipments. **HADEL POULTRY FARM, R. 2, Wrightsboro Road, Augusta, Georgia.**



A REMARKABLE 1913 CATALOGUE About HUNT'S EXHIBITION

S. C. WHITE LEGHORNS

This Catalogue contains articles on when and how to feed, diseases and their treatment, and care of chicks. This catalogue is worth dollars to anybody breeding White Leghorns. Send 10c in stamps for catalogue at once. Satisfaction guaranteed or money returned. Stock, Eggs and Baby Chicks from prize winners.

HUNT'S POULTRY FARM

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VALDOSTA, GEORGIA

BUFF BUFF MINORCAS-LEGHORNS

A superior Minorca. The Royalty of Chickendom. Made for a purpose, lay large, white eggs. Persistent layers. Emphatically WINTER LAYERS. No better table bird found; meat tender, juicy and delicious. Mature in 6 months and lay. Meat in 8 weeks. Hardy, gentle; moderate eaters; feather out like a Leghorn and have protection from cold. We have been 11 years making them. 5 years show record. Eggs, \$5.00, \$10.00, \$15.00 per setting of 15.

Lindgren Bros. BUFF LEGHORNS have the greatest show record of any in America. Have won prizes at 3 World's Fairs, in half the States in the Union. Also known for their great egg qualities. Mature in 4 to 5 months. The hardest chicken living, less subject to roup than any other chicken. Eat less and lay more than any other Leghorn. Lay more eggs in winter than other Leghorns. Fine market fowl. We have bred them for 20 years, after having tried nearly every other variety. Eggs, \$3.00, \$5.00, \$10.00.

Get our Catalogue. Pioneers of BUFF LEGHORNS, Originators of BUFF MINORCAS.

LINDGREN BROS. -- KINGSBURG, CALIFORNIA, U. S. A.

QUALITY BUCKEYES

Best all-around breed in the world. Eggs two and three dollars per sitting; also stock for sale. Begin breeding them to-day by placing your order with

SAMUEL POLLOCK, LYERLY, GEORGIA

IMPORTED

PURE WHITE INDIAN RUNNER DUCKS. The greatest money makers of all. Eggs for hatching. Write for literature and prices.

BUCKEYES

BEAT THE BAND FOR BEAUTY AND BUSINESS BIRDS. Finest Winter Layers. Eggs for hatching. Write for pamphlet and prices.

It is hard to get the White Runners with good type. MINE HAVE THE REAL RACY RUNNER TYPE. The Buckeyes will be extensively bred when their many good qualities become well known. I have the best of both breeds. Let me book your orders early.

L. A. HOCKERSMITH,
Benton, - - - - - Arkansas.

Poultry Cuts That Sell

There is as much importance attached to buying the cuts that are to go into your Catalogues and Advertising as there is in selecting your strains for breeding.

We are the only firm in the country specializing on Breeders' Cuts only. We have spent years studying stock engraving and stock photograph retouching. Write us for our free booklet, "Poultry Advertising," and other information.

BREEDERS' ENGRAVING COMPANY
Suite 519 I, Telephone Bldg, Indianapolis, Ind.

have received this year was sent us by the Maywood Poultry Farm, Anchorage, Ky. This large poultry farm is owned by Mr. Eugene J. Straus, of Louisville, Ky., a specialist in high-class White Leghorns, White Orpingtons and White Wyandottes. His motto: "Maywood Whites are White." The catalogue is nicely illustrated and contains much valuable information and should be in the hands of every poultryman who breeds the birds mentioned above. Read the display ad. in this issue of Maywood Farm.

L. H. Reade, Highland Park, Richmond, Va., the originator of the "Blue-Bar" strain of Barred Plymouth Rocks, has just sent us a copy of his booklet and mating list. If you are interested in Barred Rocks, be sure and send for a copy. Mr. Reade has 15 pens mated for the egg season. The quality of his stock is superb and prices reasonable. Read his display ad. in this issue.

W. E. Watson, of Sevierville, Tenn., breeder of Silver Spangled Hamburgs, made the following excellent winnings at the poultry show held at Sevierville, February 5, 1913: 1st cock; 1st and 2d hens; 1st cockerel; 1st pullet; 1st and 2d pens; gold special on sweepstakes pen. See his ad. in this journal, also picture of his prize winning hen, "Belle." We had the pleasure of see-

ing her, and must say that she is a beauty conforming well to Standard requirements.

We wish to direct your attention to the two display ads. in this issue of Mrs. Jerome Templeton, R. 2, Knoxville, Tennessee. She has some of Wm. Cook & Sons finest strains of Orpingtons and one pen she is desirous of selling at a great bargain to the purchaser. Her reasons for selling are most satisfactory and if you want a bargain in the best Orpingtons, write her at once.

Mrs. Reginald Stonestreet, owner of Park Poultry Yards (Glendale), Nashville, has just issued a handsome mating list which is artistically arranged and illustrated, and is in keeping with her progressive spirit and the high quality of White Orpingtons she breeds. She has five pens mated for the egg trade and if you are looking for stock as good as the best read her ad in The Hen and then write her your wants.

At the Birmingham, Ala., show, held latter part of 1912, T. M. Dyer, 200 Emma Ave., Birmingham, won on Indian Runner ducks as follows: English penciled—1st, 2d, 3d, 4th hen; 1st, 2d, 4th, 5th pullet. Whites—1st, 2d hen; 4th cock; 5th cockerel and 2d pullet. White and Fawn—2d cockerel; 3d hen; 4th pullet; 4th cock. See his display ad. elsewhere in this issue.

J. C. Patton, of Charlotte, N. C., breeder of White Indian Runner ducks, has issued his 1913 catalogue. This catalogue should be in the hands of every duck fancier. Mr. Patton is a successful breeder of ducks, and he claims to have "the best in America." Watch for his special announcement in large display ad. in our April issue.

Buschmann-Pierce Red Farms, Carmel, Ind., has issued one of the finest and most artistic catalogues we have ever seen. It is copiously illustrated with pictures of their beautiful Rhode Island Reds—the only breed they raise. Besides describing their birds and poultry plants fully, this book has valuable articles on how to raise chickens; raising poultry on a limited space; poultry diseases and their treatment; correct shape for R. I. Reds, etc. Write for this book. Read their display ad. elsewhere in this issue. They are offering a big sacrifice sale on cockerels as they need the room. If interested, write them for prices.

Write M. C. Richardson, Jr., Front Royal, Va., breeder of Rose Comb Reds only, for a copy of his mating list. Among his winnings at Madison Square Garden, Baltimore, Md.; Pittsburgh, Pa.; Hagerstown, Md., and Washington, D. C., are eleven firsts,

SPECIAL Combination OFFER

Industrious Hen

and any other paper in this list
for only

75 Cents

or any other two papers in this
list for only

\$1.00

We offer you your own selection from the 17 Largest and Best Exclusive Poultry Magazines in the World, and covering every particular section of the United States.

Money saved is money earned. We can send you The Industrious Hen and any four for \$1.70, any six for \$2.30.

American Poultry Journal
Illinois

Add 40 cents when American Poultry Journal is included.

American Poultry World
New York

American Poultry Advocate
New York

Michigan Poultry Breeder
Michigan

Poultry Culture
Kansas

Poultry Fancier
Pennsylvania

Poultry Herald
Minnesota

Poultry Item
Pennsylvania

Poultry Keeper
Illinois

Poultry Success
Ohio

Reliable Poultry Journal
Illinois

Southern Poultry Magazine
Tennessee

Successful Poultry Journal
Illinois

Southern Poultry Journal
Texas

Inland Poultry Journal
Indiana

Western Poultry Journal
Iowa

Farm Poultry
Massachusetts

Remit by Express, P. O. Money
Order, Bank Draft, Registered
Letter or Two Cent Stamps to

The INDUSTRIOUS HEN
Knoxville, Tennessee •



200 EGG INCUBATOR, \$3.00

No freight to pay. Actual hen controls everything. No lamps, no expense, no costly mistakes. Over 550,000 sold. Thousands of testimonials. Agents wanted. Free Catalog with Special Introductory Offer. Natural Hen Incubator Co., Sta. H, Dept. A1 Los Angeles, Cal.

nine seconds, eight thirds, seven fourths and twelve fifth prizes. Both stock and eggs for sale. See his ad. in this paper.

In a recent letter from T. L. Little, Camden, S. C., breeder of high-class White Wyandottes, he writes: "I would like to emphasize the fact that my cockerels shown at the recent Columbia show had never been in a show room before. 1st cockerel which I exhibited won over my New York winner, was never shown before. The cockerel heading first pen was never shown before and won at this show the A. P. A. Gold Medal for the best cockerel in the entire show. My 1st cockerel at the S. C. State Fair I sold and did not show any more. 1st cockerel at Savannah I sold and never showed again. 1st cockerel at the Camden show I sold and did not show again. Taking all this into consideration that at every show the birds which I won with were sold and at the next show a new string put in, I think this proves the quality which I have to select from." See Mr. Little's ad. in this month's Hen.

In this issue you will find the advertisement of Grower Yoder, of Romulus, N. Y., who can supply you with sunflower seed, the great poultry food. The seed is eagerly eaten by fowls and they fatten thereon, and this food is said to contain egg-making qualities. The stalks make fine fuel and for treeless districts nothing can excel the Sunflower. Read this ad.

Judge Ben R. Turner, Mt. Sterling, Ky., breeder of R. C. Rhode Island Reds, exhibited two cockerels and two pullets at the Richmond show last month, where 1,000 birds were on display, and won four ribbons, his cockerels winning first and second, and his pullets second and third. The cockerel winning first prize at Richmond has carried away five consecutive blue ties including the Richmond string. Look up Mr. Turner's ad. in The Hen.

At the Lakeland (Fla.) show, out of seven entries, Bacon & Haywood, Guyton, Ga., won 1st, 2d, 4th, 5th White Leghorn pullets; 2d White Leghorn cockerel; 4th White Rock cockerel; also sweepstakes for best pullet in show. This is their second White Leghorn pullet to win sweepstakes prizes this season.

Bacon & Haywood, Guyton, Ga., writes us saying that we made a mistake in publishing the winnings of another advertiser at Jacksonville,

Greider's Fine Catalogue



and calendar of fine, pure bred poultry for 1913. This book contains many pages of poultry facts. 70 different varieties, some shown in natural colors, all illustrated and described. Tells how to make hens lay, raise and care for them, all about the Famous Greider Incubators and Brooders. Shows photo of the largest poultry farm in Penn. Prices of breeding stock and eggs for hatching, and supplies within reach of all. A perfect guide to all poultry raisers. Send 10c for this noted book on poultry.

B. H. GREIDER, Box 101, Rheems, Pa.

Poultry Profits Doubled

1 I bring 30% 1 I bring only 15%

CAPONS bring the largest profits — 100% more than other poultry. Caponizing is easy and soon learned. Capons sell for 30c. a pound, while ordinary poultry brings only 15c. a pound. Progressive poultrymen know these things and use

PILLING CAPONIZING SETS

Sent postpaid, \$2.50 per set with "Easy-to-use" instructions. We also make Poultry Marker, 25c. Gape Worm Extractor, 25c. French Killing Knife, 60c. Booklet, "Guide for Caponizing," FREE.

G. P. PILLING & SON CO., 23d & Arch Sts., Philadelphia, Pa.

POULTRY FENCE

22 1/2 Cents a rod for 48-inch fence. 22 1/2 Fewer posts and no base board or top rail required. Buy from the factory direct. Other styles of Poultry, Farm and Lawn Fencing. Large Catalog Free. Write today Box 253 Kitzelman Bros, Muncie, Ind.

FARM FENCE

11 1/2 cts. a rod

17 1/2 cts. a rod for 26 in. high fence; 17 1/2 cts. a rod for 47 inch high stock fence. 28 1/2 cts. a rod for a 50-inch heavy poultry fence. Sold direct to the farmer on 30 Days Free Trial. Special barb wire, 80 rod spool, \$1.55. Catalog free.

INTERLOCKING FENCE CO. BOX 36 MORTON, ILLINOIS

BROWN POULTRY FENCE

STOCK-STRONG-RUST-PROOF

Costs No More Than Netting

yet will last five times as long. Made of extra heavy double galvanized, Rust Proof wires. No top or bottom boards and less than half the posts required. Chick Tight — Bottom wires only 1 inch apart. We have 160 styles, also Lawn Fences and Gates. We can save you money. Send for Catalog.

The Brown Fence & Wire Co. Dept. 37 Cleveland, O.

WE PAY THE FREIGHT

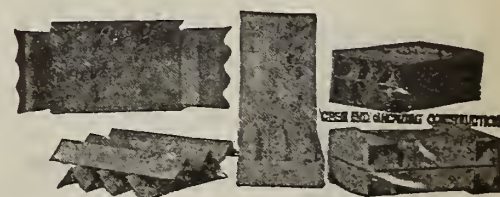
S. C. Black ORPINGTONS

ONE BREED — BRED RIGHT

Write for my illustrated mating list, describing my different pens. It's free.

J. W. STEPHENSON, Decatur, Georgia.

Buy Diamond Egg Carriers



It is a fact and not a boast that eggs get the maximum protection in the Diamond Egg Carrier. Order today. Sample 25c. 15-egg size, dozen, \$1.50; hundred, \$11.00. **DIAMOND EGG BOX CO., 1104 New York Life Bldg., Minneapolis, Minn.**

Mandy Lee Incubator

has put chick hatching on a scientific basis. Heat, moisture and fresh air are *measured* and applied in right proportions to each other automatically. High heat has low moisture, low heat has high moisture. It is the incubator with the open-front-poultry-house plan of ventilation. Ventilation is perfect. Its automatic triple regulator never goes wrong. Send for the Mandy Lee Catalog.

Lee's Poultry Supplies Mean Better Poultry

Lee's standard poultry supplies are handled by leading dealers everywhere. Ask for them. If not at yours, write us.

Germozone Cures Roup, Colds, Canker, Swelled Head, Bowel Trouble, etc. Cuts down chick losses 90%. Standard remedy everywhere. Sample for 6c. **Price 50c.**

Lice Killer Kills vermin by fumes. No need to handle fowls. Simply paint roosts. Fumes go into fluff of feathers, cracks and corners. **Price 35c, 60c, \$1.00.**

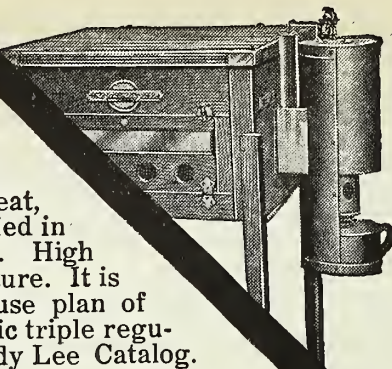
Egg Maker Best of all foods to induce laying. Right ingredients, right proportion. Fine for growing chicks. **Price 25c, 50c, \$2.00, \$7.00.**

Write direct to us for practical free Incubator and Supply books.

GEO. H. LEE CO.

1113 Harney Street, Omaha, Neb.

Lee Poultry Supplies



WHITEWASHING
and disinfecting with the new
"Kant-Klog" Sprayer
gives twice the results with same labor and fluid. Also for spraying trees, vines, vegetables, etc. Agents Wanted. Booklet free.
Rochester Spray Pump Co.,
206 Broadway, Rochester, N. Y.

colony house, with runs, which is kept perfectly clean, with litter all over the place, in which the grain is scattered. It was a beautiful sight to see about 500 Buff Leghorns and White Plymouth Rock chicks, all looking healthy, scratching over their yards for the grain which had been thrown to them. Mr. Woolley intends to add several yards to his farm next spring, which will give him additional room for young stock. He breeds Buff Leghorns and White Rocks and has a large flock of as good Buff Leghorns as I ever saw. He says that in a few years he will be raising "birds on the ground and fruit in the air."

He has a model incubator cellar. It is located on top of a hill, the ground rolling in every direction, which insures him against an overflow. His cellar is dug out of the hill and is about 12 feet deep with a capacity of about 1,000 eggs every three weeks.

Mr. Woolley says that "there is money in chickens," and that he has had a good trade in eggs and baby chicks this season and will greatly enlarge his plant by next season to be ready for his fast growing trade." Look up his ad. in The Hen.

In a recent letter from E. C. Spain, Church Road, Va., he gives the following winnings for publication. He also praises The Hen as an advertising medium: "At Southside Agricultural Fair, Petersburg, Va., I won on B. P. Rocks, 1st hen; 1st old pen; 1st, 2d and 4th young pens; 1st, 2d, 3d pullet. At Lynchburg, Va., December 10-13, 1912, the State meeting of the Barred Rock club, 130 birds in line, won 1st pullet bred cockerel; 1st, 5th pens, silver cup for best pen in show; all varieties competing. Norfolk, Va., Tidewater show, January 7-10, 1913, won 3d cock; 2d hen; 2d, 3d cockerel; 1st pullet; 1st pen; 1st cockerel bred yard; 1st pullet bred yard, and special for best display of B. P. Rocks. Richmond, Va., January 13-18, 1913, won 5th cockerel; 5th pullet; 2d exhibition pen; 3d cockerel bred yard; 1st pullet bred yard, and \$5.00 special. My Mammoth Bronze Turkeys have won every first prize at the above shows, and also the Virginia State Fair. Last month was my first ad. in your journal, and I am highly pleased to say the least of it. I have received inquiries from Florida to North Dakota. That is going some. You will find my check balance of my ad. and another inch over contract. I have ten pens mated up of the finest marked birds that I ever saw."

In our February issue of The Hen under the Poultry Disease heading a query appeared in regard to making hens lay, and saying that the hens of the party inquiring were not laying. The query was signed T. J. S., Buena Vista, Ga. We received a letter from

Single Comb RHODE ISLAND REDS

PURE ARISTOCRATS. The richest colored strain of Reds in the World. Aristocrats swept Chicago. Send for catalogue showing photos of some of the best Reds in the world. Eggs \$3.00 and \$5.00 per 15. \$15.00 and \$20.00 per 100. Fine cocks and cockerels for sale cheap.

WARNER LEWIS, Red Specialist -:- COMO, TEXAS

Show Birds---Breeder's

If you are looking for fine stock in S. C. White and Brown Leghorns, White Wyandottes, Barred Rocks, S. C. Black Minorcas, Light Brahma, Cornish, S. C. Rhode Island Reds, White Cochins, Bantams, Mammoth Pekin and Indian Runner Ducks, then write us. Our prices are reasonable, quality considered. Breeders for the past 19 years.

NEVIN POULTRY YARDS, Wardin Bros., R. 7, Charlotte, N. C.

S. C. RHODE ISLAND REDS

Our yards contain winners at twelve shows in four states, including such shows as Memphis, Birmingham and Huntsville. Eggs from best pen, \$3.00 per 15; eggs from other good pens, \$2.00 per 15. Stock for sale.

BALLEW BROS., R. 2, New Decatur, Ala.

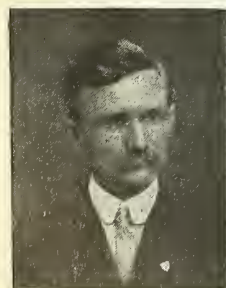
PARTRIDGE ROCKS

Eggs for sale from as fine birds as can be found anywhere. These birds won everything in their class at the 1911 and 1912 Chattanooga shows. For further information, write JAKE M. BROWN, P. O. Route 1, Chattanooga, Tenn.

BARRED ROCKS

Send for my mating list giving winnings at Indiana State Fair and other shows. Several years breeding for eggs, trapping and line breeding. Eggs, \$3.00 and \$5.00 per setting. Half price after May 1st.

CHAS. G. FULLER,
Box H, Bicknell, Indiana.



Fla., show; that instead of first Buff Orpington pullet being won by Wm. Cook & Sons, they should be credited with this prize as well as first cock. We gladly make the correction.

A COMPLETE POULTRY PLANT.

The following article was written by R. L. Simmons, a prominent poultryman and one of the most popular judges in this country, and appeared in The Charlotte Chronicle, June 29, 1912:

"About eight miles west of this city, I. W. Woolley has one of the largest and most complete poultry plants in this section. The poultry editor had the pleasure of 'breaking bread' with Mr. Woolley a few days ago, and of inspecting his plant, which is a model of neatness and convenience. His houses are large, well ventilated and fitted with all modern appliances, and are kept in the best sanitary condition. The runs are well shaded with fruit trees and are kept plowed, thus affording the hens plenty of exercise to produce health and eggs.

His system of keeping the young stock is an ideal one. For each flock of twenty-five to fifty chicks he has a

ANCONAS AND WHITE MINORCAS

Our breeding pens are now mated with the best ANCONAS we have ever owned. Our WHITE MINORCAS are bred direct from birds that have never known defeat in the show room. Stock, eggs and baby chicks for sale. Write for 1913 catalogue and read what our customers say about our birds. We know we can please you.

DISMUKES & ARRINGTON Dept. H Castalian Springs, Tenn.



No More LICE!

No sir, no more lice and we mean it. The lice problem won't worry you if you will do as the leading successful poultrymen have done for 30 years. Stop experimenting—get

The Old Reliable
LAMBERT'S Death To Lice

(2) and your lice troubles will be no more. Safe, sure, quick, easy to apply. Will not injure hens, eggs, chicks, or soil plumage. Sold in 10c, 25c, 50c and \$1.00 sizes. Send 2c for latest copy of Lambert's "POCKET BOOK OF POINTERS".
O.K. Stock Food Co., 513 Traders Bldg., Chicago

Thomas J. Steed, of Buena Vista, saying that he asked no such question and that there was nothing wrong with his hens; that they were laying regularly and that he could supply the egg trade. We gladly make the correction which is justly due Mr. Steed.

P. J. Ward, Sevierville, Tenn., informs us that at the recent show held in his town he won several ribbons on his Anconas. See his ad. in this journal.

Look up the display ad. of Maurice B. Hickson, Lynchburg, Va., to be found in this issue, and read the same carefully. He has Barred Plymouth Rocks that "have won their way to fame," and if you are in the market for either stock or eggs of this popular breed, be sure and write him before purchasing.

A. B. Carter, of Carmel, Ind., in speaking of his connection with the poultry business said: "I stayed out of the ring for three years, but came back in and won my share of the ribbons at Indianapolis on Buff Orpingtons, and sold two birds—a cockerel and pullet—for \$200.00, which were shipped to Walter Reid, St. John's, New Foundland. I cleaned up the prizes at Tennessee State Fair three years ago, winning silver cup and \$25.00 in gold for the highest scoring pen for all classes competing." Look up his ad. in this month's issue.

If you intend purchasing stock or eggs of either Barred or White Rocks, you should read the ad. of J. H. Wendler, Lakeland, Fla., in this issue. He has birds that are winners of all firsts at the leading Southern shows and is specially prepared to look after your orders with promptness.

The following is a list of recent winnings of Sandy Run Poultry Yards, Ellenboro, N. C., of which A. S. Harrill is general manager: State Fair Raleigh, N. C.—Partridge Wyandottes, 1st and 3d cock; 1st, 2d, 3d hen; 2d,



125 Egg Incubator and Brooder Both For \$10

Why pay more than our price? If ordered together we send both machines for only \$10.00, and pay freight charges East of Rockies. Hot water, double walls, dead air space between, double glass doors, copper tanks and boilers, self-regulating. Nursery under egg tray. Incubator and Brooder shipped complete with thermometers, lamps, egg-testers—ready to use when you get them. Five year guarantee—30 days trial. Incubators finished in natural colors showing the high grade California Redwood lumber used—not painted to cover inferior material. If you will compare our machines with others offered at anywhere near our price, we will feel sure of your order. Don't buy until you do this—you'll save money—it pays to investigate before you buy. Send for FREE catalog today, or send in your order and save time. Money back if not satisfied. Write us today. Don't delay. **WISCONSIN INCUBATOR CO., Box 51, Racine, Wis.**

3d cockerel; 2d, 3d pullet. White Wyandottes, 1st, 3d cocks; 1st, 2d hen; 3d, 4th cockerel; 2d, 4th pullet. Columbian Wyandottes, 1st, 4th hen. Black Minorcas, 2d, 3d cocks; 3d cockerel; 1st, 3d hen; 2d pullet. At Morganton, Partridge Wyandottes, 1st, 2d, 3d cock; 1st, 2d, 3d, 4th hen; 1st, 2d, 3d, 4th cockerel; 1st, 2d, 3d, 4th pullet; 1st pen; special best cock in show; special best parti-colored pen in show. White Wyandottes, 2d, 5th cock; 1st, 2d hen; 3d, 4th pullet; 4th, 5th cockerel; 1st pen. Black Minorcas, 1st, 2d cock; 1st cockerel; 1st, 2d hen; 1st pullet. Asheville, N. C., Partridge Wyandottes, 1st, 2d cocks; 1st, 2d, 3d hen; 2d, 3d cockerel; 3d pullet; 1st, 2d pen; special best cock in show. White Wyandottes, 1st, 3d cock; 1st, 2d cockerel; 3d, 4th hen; 2d, 3d pullet; 1st, 3d pen; special best cockerel in show. Black Minorcas, 1st, 2d cock; 1st, 2d cockerel; 1st, 2d hen; 1st pullet. At Charlotte, Partridge Wyandottes, 1st, 3d cocks; 1st, 2d hen; 1st, 2d, 5th cockerel; 1st, 2d pullet; 1st, 2d, 3d pen. Special best 10 birds in show; special best 12 birds in show; special best 25 birds in show; special best display; special best cock, hen, cockerel and pullet in show. White Wyandottes, 3d, 4th cocks; 4th hen; 4th, 5th cockerel; 6th pullet; 1st, 2d, 3d pens. Black Minorcas, 2d cock; 3d hen; 3d cockerel; 4th pullet.

Judge B. O. Swaim, Zionsville, Ind., informs us that his customers won on Buff Orpington Ducks at Indianapolis, 1913 show, as follows: 1st, 2d cockerel; 1st pullet; 1st pen; 2d, 3d hen; and 3d cock. This was the best class of Buff Orpington Ducks ever cooped at the club meet here. Mr. Swaim does not show any more, but will sell you eggs that will produce winners for the best shows. He had on display, a pen of 7 prize-winning ducks and 1st Chicago drake. Mr. Percy Cook said while here, that this pen was the best collection he had ever seen. He also won 1st cockerel; 3d cockerel, and 1st hen on Black Orpingtons, in a large class; his 1st cockerel was extra fine. Write him for fine illustrated twenty page catalogue. Mr. Swaim is making a specialty of judging waterfowls and Orpingtons and has judged at some of the largest shows in America, giving the best of satisfaction.

In this issue will be found the display ad. of Lindgren Bros., Kingsburg,

SOMETHING NEW!

Ideal POULTRY TABLETS

WILL cure and prevent Roup, Cholera, Diarrhea, Gapes, Sorehead, Chicken Pox, Frost Bites, Diphtheria, Pip, Canker, etc.

KEEPS POULTRY HEALTHY
STOPS LOSSES AND INCREASES PROFITS
"DROP TABLET IN DRINKING WATER"
"IT WILL DO THE REST"

Economical and convenient. Suggested by a prominent poultry breeder and prepared upon his and others advice.

One Breeder says:—"You have the best Roup and other membranous remedy for poultry I have ever tried. The ingredients are not only a preventative of Cholera, Roup, Sorehead, etc., but will eradicate the disease germs from poultry. In convenient form which means much to busy poultrymen."
Hartselle, Ala. J. A. THORNHILL

At Dealers or from us postpaid.
50 tablets, 25c; 125 tablets, 50c;
300 tablets, \$1.00.

YOUR MONEY BACK IF IT FAILS
Pocket book and booklet **FREE** on request

BLACKMAN STOCK
REMEDY CO.
Chattanooga, Tenn.



24 LEGBANDS FREE

MAKE YOUR HENS PAY



We send free 24 of the best Leg Bands made to every new and renewing subscriber to *The Industrious Hen* at 50c. 36 Bands will be sent with a three years subscription for \$1.00. If you are already a subscriber you may renew; or if you will get your neighbor to send 50c for his subscription, we will send a dozen Leg Bands to each. Enclose money order or stamps. Mention "Leg Bands" when subscribing under this offer.

INDUSTRIOUS HEN CO., Knoxville, Tenn.



35 VARIETIES

Chickens, Ducks, Geese, Turkeys, O. I. Hogs. Fine stock and eggs reasonable. Illustrated circular free.
John E. Heatwole, Harrisonburg, Va.

EGGS

You Can't Lose If You Buy Eggs of Us. We Guarantee the Fertility and the Quality of Chicks Hatched from Them

EGGS

**Single
Comb**

RHODE ISLAND REDS

**Rose
Comb**

We have bred our Reds to such a point for quality that we feel that they are in a class to themselves and are going to guarantee the quality of chickens raised from the eggs sold by us. We guarantee the offspring from each pen in proportion to the price paid for the eggs.

Guaranteed eggs, \$5.00, \$10.00, \$15.00, \$20.00 and \$30.00 per 15. High class utility eggs, \$3.00 per 15; \$15.00 per 100. We do not guarantee only the fertility of eggs from utility pens.

At Indianapolis show, February 3rd to 7th, we won Rose Comb and Single Comb, 12 firsts, 10 seconds, 5 thirds, 4 fourths, 3 fifths. This was the largest and best show ever held in Indiana. Also won \$100.00 cup for best display, any variety.

Send for a free mating list of eggs and baby chicks. Chicago, 1912; New York, 1912; Indianapolis, 1913; winners head our yards.

We now own all of Owen Farms Rose Comb Reds.

BUSCHMANN-PIERCE RED FARMS -- Box 60 -- CARMEL, INDIANA

California. They are specialty breeders of Buff Minorcas and Buff Leghorns. This firm has been breeding poultry for several years and is now offering special inducements to buyers living East of the Rockies. Hunt up their ad. and write them before making your purchases.

MR. R. H. SHARP AND HIS BIRDS.

One day last month the writer had the pleasure of visiting one of the most beautiful farms in East Tennessee, situated 2½ miles from La-Follette, and owned by Mr. Robert H. Sharp. There is about 500 acres in his farm, 10 acres of it is devoted to raising Standard bred poultry, Barred Plymouth Rocks exclusively. He has an up-to-date poultry plant, equipped with a number of modern poultry houses. While feeding the flock I had the opportunity of seeing about 200 very fine specimens of Barred Rocks, both for fancy and utility purposes. Mr. Sharp is one of the most enthusiastic poultry breeders in the State, so much so that he is not satisfied with being a "crank" alone, but has "inoculated" all of his neighbors with the fever, and is encouraging them in raising better poultry. He has given the work constant attention and is now getting the best results, by producing prize winners. We wish him much success, and by his untiring efforts in the poultry industry, we are sure that his most sanguine expectations will be realized. See his ad. elsewhere in this issue.—Goodlin.

Thos. Whisnant, Jr., proprietor of White Oak Poultry Farm, Charlotte, N. C., has just sent out his 1913 mating list of his White Rocks, S. C. Rhode Island Reds and Mottled Anconas, which he christens "Champions of Dixie." Mr. Whisnant's ad. can be found in this journal, and we suggest that you read it before buying stock and eggs.

We take pleasure in calling the attention of our readers to the handsome booklet which has just been issued by J. C. Fishel & Son, Hope, Ind. The title of the book is "Profitable Returns from White Wyandottes." The book is a handsome piece of real printer's art, illustrated with expensive engravings in colors, and in fact this catalogue is unexcelled in arrangement, illustration and typographical effect by any catalogues or booklets we have had the pleasure of examining

**S. C. RHODE ISLAND REDS
BARRED PLYMOUTH ROCKS**

Strong, well-marked farm-raised birds. Eggs—\$2.00 per 15. A trio of BARRED ROCKS for \$5.00 a pen; of S. C. REDS for \$9.00. These are the last birds I will have for sale till fall.

OAKLAND STOCK FARM

A. S. BELL, Manager, Route 13, KNOXVILLE, TENN.

White WYANDOTTES

Champions of West Tennessee. Six pullets, one male, \$15.00; cocks \$2.00 to \$5.00. Eggs \$3.00 per 15.

CRAWFORD LONG :: Route 2 :: JACKSON, TENNESSEE

Mottled Anconas | Barred Ply. Rocks

Again our Anconas win at the leading Southern poultry shows. Send your orders early for baby chicks and eggs for hatching.

The kind that win and lay. None better for beauty and utility.

Send for our 1913 mating list and prices.

RIVERVIEW POULTRY FARM -- MORRISTOWN, TENNESSEE

this season. The book gives full information on line-breeding, selective breeding, etc., and is specially instructive to the White Wyandotte breeders. Write for a copy at once. It is invaluable to the White Wyandotte specialists.

Following are the winnings of Leslie Bolick, of Conover, N. C.: At Charlotte, N. C., on Black Spanish—1st cockerel; 1st, 2d, 3d pullet. On Blue Andalusians—2d cockerel; 2d, 3d, 5th pullet (eight entries). Statesville, N. C., Black Spanish—1st cockerel; 1st, 3d, 4th pullet. Blue Andalusians—3d cockerel, 3d pullet. Fawn and White Indian Runner ducks—1st young duck; 1st young drake. White Indian Runner ducks—1st young drake; 3d young duck. Lincolnton, N. C., Black Spanish—1st cockerel; 1st, 2d pullet; 1st hen. Blue Andalusians—1st, 3d pullet; 1st hen.

H. E. Portrum, Rogersville, Tenn., the Ancona man, informs us that his winnings at the International Show,

Atlanta, Ga., Dec., 1912, were 1st cock; 1st hen; 3d pen, cockerel and pullet and 5th cockerel. See his ad. on another page.

We call the attention of our readers to the advertisement in this issue of Carrington Jones, Holly Springs, Miss., exclusive breeder of White Wyandottes, who informs us that he won a large share of the prizes at Memphis, Jackson, Grenada, Holly Springs and Meridian this season. He now owns the first prize cock and first prize pullet of the Tennessee State Fair, 1912. Mr. Jones is a member of the executive committee of the Mississippi Poultry Association.

In this issue you will find the ad. of N. V. Fogg, Mt. Sterling, Ky., breeder of Single Comb White Leghorns. Mr. Fogg informs us that he has 800 breeders mated for the fancy and utility egg trade, and that he is prepared to take care of all orders promptly. He has the reputation of being practical and up-to-date in his methods



WHITE ORPINGTONS

THAT STAY WHITE

We offer you eggs from pen headed by absolutely STAY WHITE male with five females, the kind you MUST have if you are to remain at the head in Whites. My birds will stamp your flock with MAGNIFICENT TYPE; notice the hen in the cut; she's just one of many good ones in our yards.

EGGS

From These Line-Bred STAY WHITE ORPINGTONS 15 for \$15

Our birds have won in six shows 8 firsts and 5 seconds, besides sweepstakes, specials, gold medals and lesser prizes. 46 prizes on a total of only eighteen entries. I make CLOSE matings, insuring high fertility as well as uniform type in the chix. From pens other than above, not more than five females in any of them. Eggs, \$10.00 and \$5.00 per 15. Write for mating list and catalogue.

HATTEMER WHITE ORPINGTON FARM

-:- Fort Deposit, Alabama

We offer for immediate sale 15 fine Cockerels, bred from our good ones, \$5.00 and \$10.00 each. A few good Pullets at \$5.00 and \$7.50 each. Big values for the money.

and his yards are kept in the most sanitary manner. Mr. Fogg is one of the largest breeders of high class exhibition and superior utility Single Comb White Leghorns in the South. His farm contains 83 acres, 20 of which is devoted entirely to poultry raising. His poultry houses are constructed from modern plans and conveniently arranged. Mr. Fogg sells birds that are guaranteed to win and eggs that will produce winners. Read his ad. and write him your wants.

Jas L. Reynolds, North Augusta, Ga., informs us that his winnings at the Georgia-Carolina Fair, Nov. 4-9, 1912, on Buckeyes were: Loving cup for best pen in show; best male; best display, best colored bird, best shaped bird; 1st, 3d, 4th pen; 2d, 3d, 4th cock; 2d, 3d, 4th hen; 1st, 2d, 3d cockerel; 4th, 5th pullet.

The Rockwood Farm, Norwalk, Ohio, of which R. W. Mead is proprietor, has just sent out a handsome catalogue containing valuable information for all poultrymen. The booklet is well illustrated with cuts of Mr. Mead's Partridge Plymouth Rocks, "Rainbow" strain, and contains full information in regard to this valuable and popular breed. Read the ad. of Rockwood Farm in this issue and send for a copy of this booklet.

Don't fail to read the advertisement in this issue of John Landis, Edinburg, Ind. Mr. Landis breeds Crystal White Plymouth Rocks, and has been engaged in the business twenty years. He has the birds possessing quality and if it's White Rocks you want, be sure and write him.

James R. Brown, Sweetwater, Tenn., breeder of Black Langshans, informs us that his most recent winnings are: At Columbia, S. C., on four entries

SOUTHLAND'S CHAMPION

WHITE PLYMOUTH ROCKS

Why experiment with other strains when our birds have demonstrated their superior qualities at the South's largest shows?

Our breeding pens are mated from the following winners:

AT TRI-STATE FAIR, MEMPHIS, TENN., SEPTEMBER, 1912: 2d cock; 3d and 4th hen; 1st and 2d cockerels; 1st, 2d, 3d and 5th pullets; 1st, 2d and 4th pens. Special Best Display.

AT GREAT SOUTHWESTERN SHOW, LITTLE ROCK, ARK., NOVEMBER, 1912: 1st cock; 2d hen; 2d cockerel; 1st pullet; 1st and 2d pens. A. P. A. Medal for best cockerel. Three cups best display, best males and females, highest scoring fifteen; all cash and club specials.

AT SOUTHERN INTERNATIONAL, ATLANTA, GA., DECEMBER, 1912: 1st cock; 2d hen; 2d and 3d cockerel; 1st, 2d and 3d pullets; 1st and 2d pens. Sweepstakes best pullet in entire show, over 700 pullets all breeds and varieties competing. All specials.

AT SPRINGFIELD, ILL., NATIONAL MEETING OF WHITE ROCK CLUB: We won, among other prizes, best shaped female. This last grand win in competition with "America's Finest" proves the remarkable quality of our flock.

Our policy guaranteed to please you.

MARTIN F. SCHULTES, Box 143 Albashire, BARTLETT, TENNESSEE

with competition in all entries and three classes full, he won 1st cock, 1st hen, 1st cockerel, 1st pullet. At Cleveland, Tenn., he won 30-piece silver set for best display of Black Langshans. Mr. Brown has birds of quality and if you need anything in his line it will pay you to write him.

C. A. Moxley, Taylorville, Ill., breeder of S. C. Buff and White Orpingtons, and Barred Plymouth Rocks, has issued his 1913 mating list, which shows that he has several yards mated for the egg trade. Read his ad. in this issue and write him before you buy.

If you contemplate purchasing Partridge Wyandottes, you should read the ad. of R. A. Swadley, Johnson City,

Tenn., and write him your wants. Mr. Swadley is a breeder of note and is prepared to furnish you either stock for breeding or the show room, or eggs for hatching.

"From the Shell to the Show Room, or the Aldrich Boys at Work," is the title of a little booklet just issued by Aldrich Poultry Farm, Columbus, Ohio, in which you can find full information in regard to hatching, feeding, watering, mating conditioning, etc., especially applicable to White Orpingtons. Send for one, and be sure to read their ad. in this issue.

The third annual booklet on their Rhode Island Reds and White Indian Runners, has just been issued by Mrs. H. R. Nusz & Son, Cecilian, Ky. They

World's Best Rhode Island Reds & Imported White Indian Runner Ducks

My 1st Championship Pen of Reds this season is headed by 2nd Madison Square, New York, Cock, Jan., 1910, and contains my 1st Madison Square Pullet, Dec., 1910, valued at \$10,000. Also 1st, 2nd, 3rd, 4th and 5th Madison Square Pullets, Jan., 1910. The greatest pen of Reds ever put together. Write for free catalogue.

SOUTHERN POULTRY FARM, Wade Hampton, Prop.,

ROGERSVILLE, TENN.



**CHAMBERLAIN'S
PERFECT CHICK FEED**

The Only Original Dry Chick Feed and the World's Standard.

"Lady Showyou," winner of the National Egglaying Contest at Mountain Grove, Mo., with a record of 82 eggs in 82 days, and 281 eggs in a year, and recently sold for \$800, was raised on Chamberlain's Perfect Chick Feed.

We have agents all over the U. S., but if our agent is not near you, we can make you special delivery prices on 100 lb. lots, or more.

W. F. Chamberlain Feed Co., 349 N. Commercial st., St. Louis, Mo.

HAS NO EQUAL-NO CORN-NO BOWEL TROUBLE




SPECIALIST IN HIGH-CLASS
WHITE
LEGHORNS
ORPINGTONS
WYANDOTTES

CLOTH BOUND
CATALOGUE FOR
STAMP

**MAYWOOD WHITES
ARE WHITE**

ANCHORAGE, KY.
P. O. BOX 8



SINGLE COMB REDS
CALLAHAN'S SON,
EAST POINT,
GA.

WE ARE
PRODUCING
BETTER REDS
EACH YEAR

STOCK
AND
EGGS—
CATALOG
—TREE—

FANTAIL
PIGEONS
ALL COLORS.

"QUALITY"
OUR MOTTO—

have been in the poultry business since 1906, and during that time have built for themselves a reputation for honesty and square dealing. Read their display ad. in this issue and write them for mating list and prices.

A few of the latest winnings of Woolley's Poultry Farm, Route 4, Charlotte, N. C.: At the great North Carolina State Fair, 1912, won 1st cockerel; 1st 2d and 3d hens on Buff Leghorns, and 1st cock on White Plymouth Rocks. At the big Charlotte Show, January, 1913: Buff Leghorns 1st cock; 2d, 3d, 4th and 5th cockerels; 1st, 3d pullets; 2d, 3d hens; 2d, 3d pens; silver cup offered by the American Leghorn Club for winning most points on S. C. Buff Leghorns. Won 2d cock on White Plymouth Rocks, 4th Buff cock at S. I. P. A., Atlanta, 1912.

OUR LAST CLEAN UP OF THE SEASON.

At the Great Indianapolis show, February 3rd to 7th, the greatest show ever held in Indiana, we won: Rose Comb—cock, 1st, 2d, 3d, 4th; hen 1st 2d, 3d, 4th, 5th; cockerel, 1st, 2d, 3d, 4th; pullet 1st, 3d, 5th; pens 1st, 2d, old; 1st, 2d young; 1st mixed. \$100 silver cup for best display, any variety in the show. Single Comb—Cock, 2d, 4th, 5th; hen, 1st, 2d, 3d; cockerel, 1st, 2d, 3; pullet, 1st, 2d; 1st old pen; 1st mixed pen, and 2d young pen. Silver cup for best display, also all shape and color specials offered by The Red Breeders Club of the World, for Rose and Single Comb Reds. We only had five entries that were not placed.—Buschmann-Pierce Red Farms, Box 60, Carmel, Indiana.

W. J. Brinkley, Iuka, Miss., breeder of "Best in the South" strain White Plymouth Rocks, won as follows at Jacksonville, January, 1913: Nine entries; 1st, 2d cocks; 1st, 2d hens; 1st 2d, cockerels; 3d, 4th pullets; 3d pen; special for best cock in American class; \$75.00 silver cup for best hen in show; gold legband for best female in American class; \$5.00 gold special for whitest bird in show. The three

specials on females were won on Mr. Brinkley's grand hen, "Loucille," (1st hen). His birds were the sensation of the show. See his ad. elsewhere in this issue.

THE HATTEMER WHITE ORPINGTON YARDS.

Breeding White Orpingtons is a science and to be successful one must be a student. It is not haphazard matings that bring results, but those that the laws of heredity and experience teach one. At the White Orpington Yards of J. F. Hattemer, Fort Deposit, Alabama, these laws have been fully exemplified in the unusual quality of the stock that has been raised.


The owner is a lover of everything that wears feathers, and after experimenting with other breeds, three years ago decided that the White Orpingtons more nearly filled his ideal of a beautiful and at the same time practical fowl than any he had knowledge of. The result was that he procured for himself some of the best foundation stock that could be found anywhere and devoted his time and talents to the production of the best in that breed, and he has been successful in producing some specimens of that variety that are at the top as Orpingtons. His show records prove it.

Exhibiting at six shows with a total of 18 entries he has the record of 8 firsts, 5 seconds, 7 specials, 3 sweepstakes and 1 gold medal and in addition to these winnings he has egg records of his hens that are phenomenal.

Mr. Hattemer is a believer in breeding White birds and those who have had the pleasure of handling his birds as I have, will attest the fact that he has done what he started out to do—Bred them White.

It is said that it is hard to get the White Orpington to conform to the shape requirements of the Standard—that they cannot be bred to it as are the Blacks. Well this may be true in some instances but at the yards of Mr. Hattemer you will find many birds of such fine type that a breeder of Blacks would say his shape had nothing on them; in fact if they were painted they could easily pass for the Blacks with their low-down, cobby type, and with it all they are as pure White as one could desire. How he has achieved this success in breeding them true to both color and type is his own secret, but those who get eggs or stock from J. F. Hattemer at Fort Deposit, Alabama, will not be disappointed. He's on the square and has the goods.—Dr. J. H. Sledd.

Ice cold water should never be given to stock or poultry. It shocks and chills their system and they will refuse to drink much of it. Use a tank heater.



**Healthy Fowls
Always Pay**

It's the neglected and diseased flock that makes so many attempts at poultry raising unprofitable. Stamp out Roup, Cholera, Sorehead and other deadly diseases from your flock, keep it out, and make every hen an egg layer and money maker by giving them

**OWEN'S
Ideal POULTRY
REMEDY**

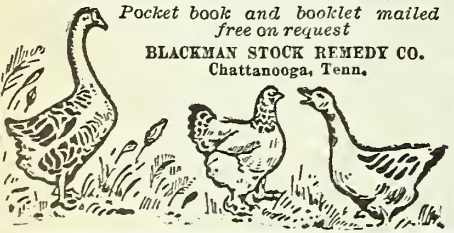
and EGG PRODUCER

D. M. OWEN, one of the country's best poultry breeders and judges furnished the formula of which he says: "I have used many different kinds of Poultry Powder, but have found none that I consider equal to this preparation for the prevention and cure of poultry diseases. This formula was originated over twenty years ago and has been used with success by many poultry breeders, I having used it twenty years, and during that time have not had a case of cholera in my yard. It keeps my poultry in perfect health and condition, and I can heartily recommend it."

If your dealer will not supply you, write us. Packed in 25c cans and 25-lbs. buckets, \$3.

Pocket book and booklet mailed free on request

BLACKMAN STOCK REMEDY CO.
Chattanooga, Tenn.



BROWN LEGHORN EGGS \$3⁰⁰

SPECIAL MATINGS \$10.00

My 1st and 2nd prize hens, Atlanta, 1912, were hatched from my \$3.00 quality eggs.

Some of my best females are now among my \$3.00 quality matings; they are pullets and younger than those in my special matings.

I'm booking orders now. Better place your egg order to-day; name about the date you shall want shipment made. Remit when you get ready for eggs. Circular free.

J. H. HENDERSON, KNOXVILLE, TENNESSEE
Breeder Brown Leghorns Since 1890
Member American Poultry Association,
American S. C. Brown Leghorn Club.

USEFUL FACTS WORTH REMEMBERING.

The fancier having a wife who is also interested in poultry has several degrees the advantage of the fellow-fancier without a wife, or with one to whom poultry is a subject of but little interest. A woman when she does take an interest in poultry matters, can usually give a man several points in the game and then beat him. She gives more attention to the little things—that is, to those that a man would consider as little, but it is the seeming little things that go so far toward making a success of the business, and a woman seems to realize this to a greater extent than the average man, and as we have said, the fancier blessed with a wife who is also a fancier has much the advantage over the "bachelor" fancier or the one whose wife takes but little interest in such matters.

In order to secure the best growth and perfect development, it is best to separate and keep the two sexes by themselves after the cockerels commence to crow. Until farmers adopt this plan, they cannot compete with poultrymen who make it a point to observe the rule very carefully.

Medicines should never be used for poultry unless necessity requires. If a flock is healthy and giving good results, there is no reason for attempting to make them do more at the risk of injuring them. The habit

As low as

\$8

**Every
Buckeye
Guaranteed
to Hatch
Every
Hatchable
Egg**



THE illustration shows the 60-egg Buckeye Incubator—a machine complete and guaranteed in every respect. This size costs only \$8.00. Buckeye Incubators are made in five sizes—60-egg to 350-egg. They are equipped with every desirable device to hatch strong chicks that live and thrive. The Buckeye has the reputation of hatching bigger, stronger chicks than any other incubator. Certainly, no other approaches it in popularity. Think of it! Over 325,000 in actual use. 100,000 sold last year—more than any other make. Its simplicity is unapproached. Thousands buy them who have never before operated an incubator and bring off successful hatches.

The Buckeye hatching principle and plan of construction has been adopted by the big 10,000-egg machines. Could it be paid a greater compliment, or could there be greater proof that it is correct in principle and practice?

You can buy a Buckeye in your own town—see it in operation before you buy—and prove to your own satisfaction that it will hatch more chicks and stronger chicks than any other method. Write us for the name of the firm who represents us in your town—then go and see the chicks hatching. Your name on a postal will bring you our dealer's name and our catalog.

The Buckeye Incubator Company
525 Euclid Avenue, Springfield, Ohio

Anybody Can Hatch Chickens with a BUCKEYE

of using carbolic acid, copperas and other substances in the water as tonics has been productive of more harm than good. The best way to prevent disease is not to give these objectionable substances to the fowls, but use them as disinfectants, keeping disease away by having clean premises.

One meal of soft food is sufficient, and it should be given early in the morning, and should be warm. No meals are necessary at noon, as it is better to allow the hens to be hungry, so as to compel them to scratch, than to keep their crops full, in which case they become very fat. At night scatter the grains so that the hens will have a job searching for them; should any be left over they will be found by the hens the next morning. Soft food may consist of anything that can be fed in that condition. It is the meal to which all the extra foods are added. It should never be very soft, but of a consistency to allow it to be crumbled.

The best time to thin out surplus fowls, especially cockerels, is when they attain the right size for broilers. They will bring more than after

they have attained full growth in the fall, when most of the thinning out is usually done by farmers and when the market is sure to be glutted. For early broilers in May and June an extra price can generally be obtained, as the market is not so well supplied as later.

Air-slaked lime is cheap and will serve to make a damp poultry house dry and destroy the germs of roup. The floor, walks, roosts, nests and yards may be freely dusted with it. In the runs where little ducks are raised it will destroy the gape worms and prevent the loss of chicks from that cause. It is harmless and saves labor, because a few handfuls used once a day will be sufficient and saves much hard work that would otherwise be necessary.

The larger the bones and coarser the fowl the greater proportion of offal. Breast meat is always desirable, but the breast meat is greatest on those birds that fly and have small bones. The small bones and prominent breast bones of Games and the Dorking render them the best of all the breeds for the table, and they

WHITE RUNNERS

OUR WINNINGS

SOUTHERN INTERNATIONAL, ATLANTA, GA.—3d drake and 3d duck.

ASHEVILLE, N. C.—2d and 3d drake; 1st, 2d and 4th duck; also 1st pen.

SPARTANBURG, S. C.—1st, 2d, 4th, 5th drake; 1st, 2d, 3d, 4th, 5th duck; also 1st, 2d, 4th, 5th pen.

FLORIDA STATE POULTRY SHOW, JACKSONVILLE, FLA.—1st, 3d, 4th drake; 1st, 2d, 4th duck; 1st pen; also cup for best pen of ducks in the show, all varieties competing.

EGGS—\$8.00 per 12; \$50.00 per 100. 50 High-Class Drakes for sale.

BURNETT & CHERRY, Box No. 207, SPARTANBURG, S. C.

S. C. BUFF ORPINGTONS

My birds have been winning the blue for several years at the leading shows throughout the United States. At Nashville, Tenn., won all firsts except cock, and \$25.00 Gold Special for highest scoring pen in show (3,500 entries). Egg orders promptly looked after. If you want high quality stock, write

A. B. CARTER --:-- CARMEL, INDIANA

Single Comb WHITE LEGHORNS, Single Comb BLACK MINORCAS
Single Comb BUFF ORPINGTONS, COLUMBIAN WYANDOTTES

Our birds have won many firsts and specials this season. If you want eggs that are sure to produce WINNERS and PROLIFIC LAYERS give us your order. WE GUARANTEE SATISFACTION. Eggs from Minorcas and Wyandottes at \$1.50, \$3.00, \$5.00 per 15; Leghorns, \$1.50 and \$2.00 per 15. We can spare a few eggs from a pen of Buff Orpingtons headed by a Memphis and Asheville first pen cock; this pen contains two fine imported females. Eggs, \$3.00 per 15. Give us a trial.

MOUNTAIN VIEW FARM, D. R. McBRAYER, Manager, MOORESBORO, N. C.
 Box H.

EGGS

\$3.00 } Per 15
 and
\$5.00 } Per 15

From Chicago, Indianapolis, Cleveland and Atlanta Winners.

600 Premiums Won at Big Shows.

Free Circulars Tell It All To You.

E. E. CARTER

Department I. H.

KNOXVILLE --:-- TENNESSEE

Agents--\$10 a Day Easy

Selling our beautiful Religious masterpiece, "Christ at Golgotha." Sells on sight for 25c, your profit 20c. Sample picture and full selling plan for 15c. Circulars free. **GROW-YODER CO., Dept. 2H, Box 88, Romulus, N. Y.**

The Industrious Hen, Three Years Only One Dollar.

also possess fine grain of flesh. These breeds are not easily raised, as the chicks feather rapidly, but crossed on Brahma or Cochin hens the product is a hardy and superior table fowl.

Poultry diseases are better prevented than cured; where lice are found cholera follows, for they are caused by one and the same thing—filth. The utmost cleanliness is necessary in the houses and on the ground. Yards should be often spaded or plowed. If houses and coops are kept clean, the fowls will clean themselves of vermin if provided with dust baths. White-wash is one of the most important articles in poultry management. Light, sandy soils are best for poultry yards, as the rains carry down many impurities.

A pen of fowls is in itself a rather insignificant matter, but put into the hands of your boy it may result in his becoming an up-to-date, progressive farmer and breeder, instead of an underpaid clerk or mechanic, drawn to the city simply because life and the farm are not made attractive to him.

The best food for ducks and geese before grass appears is a mess of cooked turnips, thickened with bran twice a day. If the cooking is objectionable the turnips may be cut up and the bran sprinkled over them. Ducks and geese prefer bulky food and require but little grain when not laying.

Never go direct from handling sick fowls to the quarters of the well ones. Do not allow your neighbors' birds to

run with your own. Do not go from your neighbor's henneries to your own; and last but not least, never keep sick birds in the same room where the food for the other fowls is kept. **E. G. Wardin, Charlotte, N. C.**

SELECTING A BREED FOR EGG PRODUCTION.

The great majority raise poultry primarily for a profit. A great many fail; some don't know how they stand and they are failures, too. This is true in all lines of business and principally for the same reasons. There is much advice as to how to avoid the pitfalls, especially in the poultry business. Some will give you this advice for a consideration—they are successful, those who receive your money. Much of this advice is valuable, though some is conflicting, both to the beginner and the initiated, if properly digested.

I advise all who are now, or are contemplating going into the chicken business, and expect to make the business self-supporting, to think for yourself and fowls—don't let others think for you. Be a thinker, and all the rest will be added unto you. It is well to let others help you think, or start you on a right line of thought, but be a thinker and you will surely succeed.

If you will study poultry culture and begin right and with a common-sense method, you will make a profit; the main thing is an object to work to. It is well to adopt the feeding formula of some experiment station at the outset; calculate the expenses and lay down rules for the government of your business and be careful to live up to them every day, and though you do all this and do not think for yourself, you will find that your adviser has regulated you out of business. The slough of despond in the poultry business is keeping the cost of production below the market price of your product; your hired man is not going to look after this for you.

It is the careful thinker, who has given careful consideration to all of these problems, who will personally meet anything that confronts him without writing some far-away editor for advice which generally comes too late.

Granting all this, then what variety are you going to start with? If you want broilers or fowls for meat, then get a setting variety, but if you want to specialize on the profit-making eggs get a non-setting variety, and one that has a reputation as an egg-producer. I decided on the latter.

I had a small stable connected with a grassy lot with running water; I converted it into my poultry yards. I saw in some government report that an egg is composed of 60 per cent water and from the then price of eggs I decided to convert water into eggs just as fast as possible; I wanted a breed capable of converting water into eggs the year round; after figuring the cost of producing the remaining 40 per cent of the egg and maintaining the hen and the cost to convert the salable egg into a salable chick and I saw it was more profitable to me to unload the first possible chance. I lined the branch banks with living rams—Ancona hens and pullets—and

they are still helping unload water upon an uncomplaining public.

You ask why Anconas? There are many reasons why this breed stands pre-eminent among the non-setting breeds; any one who will select a breed for eggs without giving the Ancona careful consideration, stands in his own light. They are capable of converting more water on less feed than any fowl I know. My reasons for selecting Anconas, stated briefly, are: They are winter layers, small eaters, mature early, yellow skinned. They make plump squab broilers and are graceful in appearance.

This is enough, but yet it is not all. The Ancona is becoming very popular and the demand for eggs for hatching is very great and it will be greater. The Poultry Index, an Eastern publication, listed last year all the breeders of Anconas, also the Minorca breeders and the Anconas were in the majority by one-third. This should indicate their future.

The sex of the Ancona is easily distinguished at the ages of 6 and 8 weeks old. I put them on the market last year for this season's breeders in trios and pens, as you wanted them. This trade comes in in the summer months when the other lines are dull. This trade will be boosted, for it helps the poultryman in a dull season and also the poultry journals, for the season is dull with them, and it enables breeders to get young stock well past the danger age at reasonable prices. It will be to the poultryman what the night letter is to the telegraph companies—it makes business for a dull season. Let everybody try it.

And last but not least, you must be an advertiser; you must not put your candle under a bushel if you want all there is in poultry out of it. Advertising does not cost a successful poultryman anything; it gives him a bigger market at higher prices and he feels that what he sends the publishers is rightfully theirs and not his. If you have any fowls worth while tell your many neighbors about them by an advertisement in the *Industrious Hen*. You will be surprised how it pays. Try it!—H. E. Portrum, Rogersville, Tennessee.

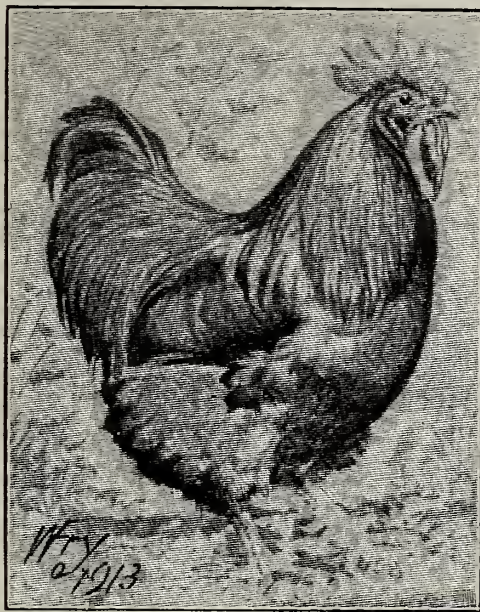
PROPOSED POULTRYMAN'S PARADISE.

With the idea of making it possible for poultry breeders to reap the benefits of co-operative action a somewhat original movement was placed in shape for quick action last month when a gathering of some sixty poultry breeders from about fourteen States discussed the proposition to form a colony of poultry breeders exclusively, provided a tract sufficiently large to accommodate them can be found within the bounds of the Southern States.

It was the idea of the breeders present that by co-operation in a matter of this kind it would be possible for all members of such an association to obtain far greater profits and better business as in the cases of other lines of agricultural pursuits, such as dairying, etc., where it had been found possible to benefit from combining. Un-

Sunny Brook Orpingtons

WIN at New Orleans, Dec., 1912



1st Prize New Orleans—Black Orpington
Cock—Special Best Male

BLACKS—1st Cock and gold leg band for best Black male, 2nd Hen, 2nd Cockerel 4th Pen; 86 in the class.

WHITE—3rd Cock, 4th Hen, 3rd Pen in class of 84.

BUFFS—1st Hen and special best Buff female, 1st Cockerel, 3rd Pen; 65 in class. Every bird we showed in the ribbons but two.

This great winning, with our record of 9 firsts, 8 seconds, 9 thirds and many specials at the Birmingham shows, proves our claim of quality.

Get Your Foundation Stock From Sunny Brook Farm

No farm South shows a flock of such superlative type and color throughout. Nowhere else will you get so much of real quality for the price you pay. Five pens of Black, four Buff, four White. Eggs \$3, \$5, \$10 per 15; fertility running high, chix coming big and fine and healthy, just the kind to set you on the right road to Orpington success. Send for our handsome catalogue and mating lists.

Leghorns

S. C. White, S. C. Buff

Just as full of quality as our Orps, and great layers of big, white eggs.

Eggs \$3 per fifteen

Sunny Brook Farm

Walter K. McAdory

R. F. D. No. 4

Birmingham, Ala.

Don't let your chix die by White Diarrhea.

Send to us for Coleman's Famous Remedy, 25 cents. Sure Cure.

Eureka Roup Tablets 25c
Noxlice Ointment - 25c

Ten White Orpington Cockerels \$5 each, best you ever saw for the price. Order today, for they'll go "sure as guns"

Single Comb RHODE ISLAND REDS Exclusively

Proof it takes, and proof we have, that after 8 years careful breeding we have both birds and eggs to offer you of highest quality. 1912 at Newport, Tenn., 1st pen, 1st cock, hen, pullet, cockerel. Sweetwater, 3 entries, 1st pen, 1st pullet, 3rd cockerel. Morristown, Tenn., 1st, 2nd, 3rd cockerels, 1st pullet, 1st hen, 2nd pen. Sweepstakes on male and female for highest scoring birds in show, shape and color. Red Club of America Specials. Eggs, \$2.00 to \$7.50. Ask for mating list. APPALACHIAN POULTRY YARDS, A. J. Stanbery, Proprietor, R. F. D. No. 2, Newport, Tenn

Hoag Farms, Enid, Oklahoma, Breeders of

S. C. White Leghorns--Buff Orpingtons Single Comb Rhode Island Reds

Our birds have become popular upon their own merits. They are noted for their marvelous laying qualities and hardiness. If you need a bird for your show or breeding pen write us, our catalogue is free. (Mention this journal.) Eggs and baby chicks in season.

HOAG FARMS -- -- -- ENID, OKLAHOMA

Crystal White Orpingtons


FOR SALE—Stock and eggs in season. Eggs from two good pens at \$3.00 and \$5.00 per setting. Our birds won the blue at Charlotte, N. C.; Charleston, S. C.; Columbia, S. C.; Chester, S. C.; Spartanburg, S. C., and wherever shown, we are among the winners. Lansden strain S. C. R. I. REDS. Write for mating list.

H. E. THOMPSON & SONS -- 2012 Marion St. -- COLUMBIA, S. C.

IMPROVED SILVER CAMPINES

Bred from our original Importation and our Madison Square Garden winners. Eggs, \$5.00 for 15; \$10.00 for 50; \$18.00 per 100.

HILLCREST FARMS -- Free Catalogue -- OAKFORD, PENNSYLVANIA



ROGERS' Money-Back POULTRY PUNCH

The only one that you can trade back for your money if not satisfied. Cuts clean hole, works easy and you can see what you are doing.

Plain White Finish.....25c
Nickel Plated35c

Mailed, postpaid. Thousands in actual use.

T. W. ROGERS, Box H, LAMONT, IOWA

der such conditions it was believed that it would be possible to form a colony with from two to three thousand families, each of whom should be a poultry breeder of some kind and that all would be able to obtain supplies at wholesale rates while at the same time they would be able to fix prices for their products to a better advantage than others of the profession who find that there are many obstacles in their way when they attempt to operate singly.

All of the sixty representatives of the breeders present were in favor of attempting the formation of such a colony and it was the opinion that it would be possible to obtain at the present time a situation that would be admirable for such a co-operative settlement, at prices that are much lower than will be the case in a very short time.

The opinion was expressed that it was now or never, that such an attempt could be made with success, for the reason that large tracts or bodies of land where such a plan would be possible are being taken by the speculators and that before long, there would be none left at low prices.

A committee was appointed to look into the land question and to see if terms that are satisfactory could be made, whereby it would be possible to obtain a large tract in the best situa-

tion which could be obtained on terms that would allow the members to pay for their yards on installments or on long time. This committee is to report inside of a month at a meeting to be held on call, in New Orleans, which place it was decided would be the best place for temporary headquarters. If it is found that a site for such a colony can be obtained, it was decided to invite the entire profession of poultry breeders to become members and to ask the poultry and other publications to extend the invitation to their readers to join.

To enable the poultry breeders of the country to obtain the information as quickly as possible, it was the opinion that a temporary secretary be appointed at New Orleans, and Mr. H. J. Hill, editor of the Trucker and Farmer, one of the leading agricultural papers of the South, offered his services gratis, stating that he believes that such a movement would be of greatest benefit to poultry breeders. He stated that he would place the force of his office at the disposal of the committees, and would agree to answer all inquiries according to the desires of the committee. He invited letters from the poultry breeders of the country, bearing on this subject, promising to reply promptly.

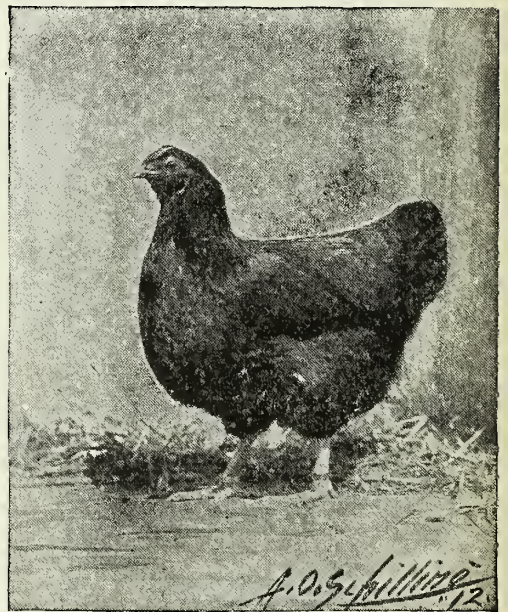
Several other committees were appointed and various questions discuss-

ed, and the sixty present signed the temporary roll of membership.

IT PAYS TO BOOST THE BOY.

“As the twig is bent the tree is inclined.” This old saying is true to a certain extent in the training of our boys. Boys can be led far easier than they can be driven. They are not given us to be driven, but rather to be led or piloted. If you wish to see your boy’s eyes dance and sparkle with delight and joy, just call him to you on his birthday and say to him, “Now, Johnny, you are ten years old today, and you can commence to be a man; I’ll help you, and Johnny, you’ll be a man in short order (and what boy isn’t proud to do things like a man?) and right then and there that boy will ply questions faster than you can answer them, but it is up to you to answer all that you have time to. He will want to know what, where, when, how, etc., and say, he would not be worth much if he didn’t ask questions. Say to him, “Now, Johnny, how would you like to have a nice little chicken house and some nice chickens, all for your own?” Just watch the broad smile on his face and the snap in his eyes when he answers, “Oh I’d like it all right, papa; why, can I?” “Yes, Johnny, we will go to town tomorrow and get some lumber and nails and some paint to paint the coop a nice color, and I’ll get you a new hammer and saw for your own; I will show you how, and I am sure you can build a nice coop all yourself, can’t you?” “Yes I can, papa,” comes the answer. He is interested from the word go, and is up the next morning, long before you are, getting things ready to go to town.

When the material is on the place and all is in readiness, you will hear the sound of Johnny’s hammer and saw from early morn till late at night. Industrious? Of course he is, and he will take interest in his work, and although it is his first and is not exact-



R. I. Red Hen. Bred and Owned by Buschmann-Pierce Red Farm, Carmel, Indiana.

PERFECTION SANITARY CIRCULAR METAL BROOD COOP



made entirely of galvanized iron which will last a life time. They are properly ventilated, and are Rat, Mink, Weasel and Skunk proof. Just the coop you are looking for. Write for circular & special introductory prices. Perfection Metal Brood Coop Co. Box 36-M Warsaw, Ill.

ly perfect, it will be quite a coop for a boy of ten years to make, and you should tell him so, and in it he will have great interest from the fact he built it. When it is finished tell him, "Now, Johnny, chickens come next; we will go to the fair next week and you are to pick out the kind of chickens you like best and we will buy them," and before you are through perhaps, comes the exclamation, "Oh, papa, I can tell right now which kind I want. I want some of those big yellow ones!" Of course he knew which kind he wanted, for while he worked diligently at his coop he had done a little thinking on the side. He had even fancied how those big yellow chickens, as he called them, would look in his new coop, and when they were purchased and installed in his new coop it would seem to him the happiest days of his life, the days when he started a business really his own, and you will have no trouble in getting him to do odd chores for papa or mama now, for he is so elated and happy over his new work that all his chores are done up with dispatch.

Now Johnny may never be a fancier, or even a farmer, but the chances are that he will not hanker to leave the old farm for a city life, and you can always look back with gladness to the time you started your boy to thinking and doing for himself by erecting a chicken coop with his own hands, with his own tools, in his own way.—S. P. Porter, Mallet Creek, Ohio.

BLACK LEGHORNS.

Many beginners do not know with what breed to start and this is probably because they are not acquainted with the facts concerning the different varieties. The Black Leghorn, with its many sterling qualities, has been overlooked for many years, but is now one of the most popular varieties of the Leghorn family in Europe, where it is bred extensively for egg production. Since Americans have realized the value of this beautiful as well as profitable fowl, it is becoming widely known all over the country and has won the fancy of many breeders in the South—in fact, of all those who have become acquainted with it. Beauty may often be a matter of taste, but that the Black Leghorn is one of the most attractive birds of the chicken family, is unquestionable. Their beautiful contrast in colors—such as a bright red comb, face and wattles, pure white earlobes, coal-black plumage, showing a glossy green sheen in the sunlight, and their rich golden yellow legs—all together, make them almost a curiosity. As egg producers they are unsurpassed, laying an abundance of large, white eggs, especially during winter when eggs are scarce. I have been breeding Black Leghorns for several years and

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HERE is a Free Library of Practical Poultry Information worth many dollars to anyone interested in Profitable Poultry and Egg Production. Don't fail to secure your set. The facts therein contained will prove a revelation in Advanced Methods for turning Poultry Raising opportunities into Spot Cash Dollars—into PROFITS. All these are free on request.

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It Tells All in Detail about feeding chicks. Beginning with how to feed each day the first seven days, then every week up to the fifteenth week. Tells how to feed and produce most quickly and economically Squab Broilers, Regular Broilers, Fryers, Roasting Chickens, Capons, Layers, Breeders, Ducks, Ducklings, etc. 52 pages—Fully Illustrated. Free to You, Postpaid.

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Reliable information—actual fact-knowledge in detail on Brooding—what to do and what not to do—where to locate your Brooder or Brooding Hover—how to care for it—how to safeguard your chicks—new facts on feeding—how to prevent losses. Cyphers Company's new book, "Best Methods of Brooding," tells all this and much more, 52 pages. Your FREE copy is waiting for you. Sent on request, postage paid.

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The Cypher's Company's Big 1913 Year Book, 244 pages of Sound, Money-Making Advice—actual Experiments made and Results secured on Cyphers Company's \$75,000 Experiment and Demonstration Farm. Fully illustrates and describes



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—World's Standard Poultry Equipment—on which has been built the Big and Lasting Success of Thousands of Business-Like Poultry Men and Women. Cyphers Standard Equipment cuts out all loss through experiment or uncertainty. They have won remarkable success for 16 years.

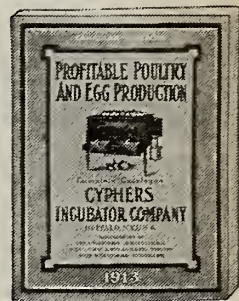
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during the most severe winters they have not failed to hold their own by filling the egg basket when the several other breeds I had then were all on a general strike. They are a variety that do as well in confinement as on free range, and they always look clean in the pen, for being black, they do not show dirt the same as light feathered fowls. For the farmer, they are advantageous inasmuch as they are not as easily seen by hawks, on account of being black; they are good foragers, and when on range, will find a large percentage of their food. The chicks are very strong and healthy when hatched, maturing very early and will start to lay at the age of about five months. For profit, they will out-class all the other breeds as they lay their eggs when prices are high and the cost of feeding is just about one-half that of the larger breeds. You will make no mistake when you start to breed Black Leghorns, and should you give them a trial, they will prove to you that the above lines are absolutely correct.—Maurice Stockton, Black Leghorn Specialist, 1226 N. Rocheblave St., New Orleans, Louisiana.

WILL NOT BE WITHOUT IT.

Mr. J. L. Denton, Armuchee, Ga., in renewing his subscription to The Industrious Hen, writes:

"I think it the best poultry paper published, and will never be without it again as long as I raise chickens."



This 132-Page Catalog Tells How We Increased Egg Production 25%

Send for Your Copy Today.

It will be sent absolutely free and tells for the first time how the wonderful laying qualities of the Ferris Improved White Leghorns have been developed—how we have increased egg production over twenty-five per cent by our system. Twelve years ago when we started to breed layers it was impossible to get hens that would lay more than 100 to 140 eggs a year. Now we have developed laying qualities by scientific breeding so that we have flocks that average over 185 eggs a year.

Eggs, Chicks and Stock

We can furnish eggs, chicks and stock in any quantity and will guarantee perfect satisfaction. Our exhibition matings will breed winners for any show and are fully described in our catalog and mating list. Our trapnested layers will give you the right kind of foundation stock for heavy egg production, and the prices of eggs and chicks are very reasonable. Infertile eggs replaced free of charge. Safe arrival of chicks guaranteed.

Thousands of hens in our breeding pens enable us to make prompt shipment of all orders. We have foundation stock of all grades to sell at low prices.

There is no space in this ad to tell you all the good points of Ferris Improved White Leghorns—so we want to send you the catalog free of charge. Just mail a postal while you have this ad in mind—it will bring the catalog by return mail, containing more valuable information than any other poultry book.

George B. Ferris, The Ferris Leghorn Farm
920 Union Avenue, Grand Rapids, Mich.

Avoid lawsuits as you would shun a contagious disease. The hatred engendered by lawsuits spreads widely and unto the third generation.

GENUINE IMPORTED RUNNERSALL..... VARIETIES

We are direct importers of the true Indian Runner duck. We have the grandest pair of imported Fawn and White Runners in the United States that we imported direct, 1912. A limited number of eggs from this pen for sale. Your chance to get some of the finest Runners in the world. Won all firsts at the Appalachian Exposition, 1910 and 1911.

20 acres devoted to standard bred S. C. WHITE LEGHORNS and S. C. BUFF ORPINGTONS. Write for FREE CATALOGUE. The finest duck catalogue ever issued.

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WHITE PINE, TENNESSEE

BYANDALE FARM White Indian Runner Ducks

A strictly choice flock of females mated to the first prize drake at Missouri State Show and the first prize drake at United Fanciers' Exposition, at Omaha. Eggs from this mating at \$3.00 per 12.
B. L. EVANS - SPENCER, INDIANA




INDIAN DUCKS
The greatest layers on earth; 300 eggs per year. Send 10 cents for beautifully illustrated booklet No. 69 Tells how to raise ducks successfully. **WOMAN'S COLLEGE**, Meridian, Miss.




FAWN AND WHITE Indian Runner Ducks


The greatest laying and exhibition strain on earth. 10-days old ducklings, 35c. Day-old, 25c. Eggs, \$1.50 dozen; better \$2.00. I solicit your orders. **DR. J. M. McWILLIAMS**, Fayetteville, Tennessee.



Standard
Fawn and White Indian Runner Ducks, best in the South. **WINNERS** wherever shown. Layers of snow white eggs. Eggs, \$2.00 per dozen. **MRS. W. J. SPRIGGS**, Mulberry, Tenn.



S. C. WHITE LEGHORNS, INDIAN RUNNER DUCKS, RUFUS RED, BELGIAN HARES.
Stock and Eggs for sale at all times. Send 3c in stamps for booklet and catalogue, tells how to make these breeds pay.
Kling & Hawkins, Poultry Yards and Rabitry. Box "E" Meridian, Miss.



White RUNNERS - Fawn RUNNERS

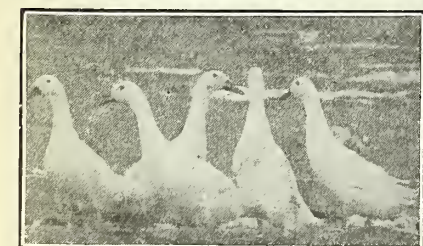
Winners at Indianapolis, Columbus, etc. **WHITE HOLLAND TURKEYS** and **BLACK ORPINGTONS**. Our winnings prove we are at the top. Stock and Eggs.

RAY BOTTORFF

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CORTLAND, INDIANA



RHODES' WHITE INDIAN RUNNER DUCKS

ORIGINATOR OF THE RHODES STRAIN

Great layers of large white eggs. Can spare a few choice breeders. Eggs, \$5.00 per 12.

MRS. A. N. RHODES

New Castle, Ind.

SNOWFLAKE WHITE INDIAN RUNNER DUCKS

MRS. E. E. ESHBACH

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1402 STURM AVENUE

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INDIANAPOLIS, INDIANA

a mistaken idea. I have my beautiful stately old Barred Plymouth Rock chickens that are abreast with the times now with any of our new breeds. They are more popular than they were thirty years ago. My beautiful Fawn and White Indian Runner ducks I also take great pride in. So you see if I fail in one line I can take up another and try the harder; but in my experience I learn that I can't feed and care for a turkey like it was a chicken, nor a chicken like it was a duck, but we must study the nature of each and treat them accordingly.

I believe in last month's *Industrious Hen* I promised to write on "Care and Food of Young Turkeys," for this month. Although I have written on this subject several times, I have been solicited to do so again, and I hope some may be benefited and others reminded.

After proper incubation of twenty-eight days we find our little turks peeping out from under the mother's feathers just ready to begin their natural ramble, but they should be left alone for forty-eight hours without food; then move them to some grassy spot, away from other fowls, that the little poults may be quiet with only the mother turkey, who will give them every care needed if not disturbed. I give them water in a shallow pie-pan with pebbles in it to keep their feet dry, and yet they can see the water and will drink before eating any food, because nature has provided food for them in the yolk of egg being left in the body to be taken up in blood after they are out of the shell. I also give them grit in some form, either a bank of sand or bought chick grit, or I have used crockery beaten fine and put down before them—any kind of grit to go in gizzard to grind the food that will soon follow—and that is very necessary to aid digestion. I now take one hard-boiled egg to twenty-five poults and chop onion tops and lettuce leaves fine, and to this sprinkle a little powdered black pepper. They should have this about three or four times a day, until they are about four or five days old; then, for a change, add a little light bread soaked in skimmed sweet milk. Give this instead of the boiled egg, or alternate the bread and egg food, and never neglect the green stuff, for they dearly love the onions and lettuce. After they are four or five days old, if the weather is fine, I let them out to take a little exercise and gain strength;

Imported White Indian Runner Ducks

I have imported from England, direct, a flock of WHITE RUNNERS; from the fountain head of the best INDIAN RUNNER blood in the world. Eggs from this flock, \$12.00 straight. I have two other yards, containing WHITE RUNNERS, the equal of any in America—winners at Hagerstown, Richmond, Atlanta, Birmingham, New Orleans, Columbus, Ga.; Jacksonville. Eggs from these yards, \$8.00 dozen. Eggs from other splendid utility, prize winning birds, \$4.00 dozen. Eggs from ENGLISH PENCILLED RUNNERS, also imported direct from Walton, \$2.00 dozen, straight. Circular free.

W. O. BROWNFIELD

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OPELIKA, ALABAMA

at night I see that they are safe in a nice coop or under shelter of some kind. Now I give my little turks a little dip of lard and coal oil, about one tablespoonful of lard to half teaspoonful of oil, well mixed. Dip finger in mixture and rub on head and under throat, this is for head lice. I then grease the old hen on back but not so the little ones will get any of it, but they will give her enough off of their heads and they will not get too much for the cool mornings to chill them and hot sun to blister in middle of day. This should be repeated once a week with the young ones until they are three or four weeks old then we may look in between wing quills just under the little down on wing bows, there we will find the small white lice that will soon kill out our beauties and we imagine everything is the matter. I usually examine for these once a week whether I think they are there or not, I find more people kill their young turkeys by over-feeding and neglect of lice than anything. After they are two weeks old I begin feeding cottage cheese, made by heating clabber milk and squeezing out the whey—this is crumbly and nice for a supper ration. If fed too much of this, their bodies get too heavy for their legs and leg weakness is caused. I want them to ramble and get all the insects and grasses they can during the day, and as soon as they are able to forage away from the house they should not be fed but twice a day, but should be fed specially at night to induce them to come home to their regular roosting place. This should be made with wire netting door to let in fresh air and not allow rats in, as turkeys must have fresh air and clean quarters to be healthy and grow to perfection.—Mrs. J. C. Skofner, Mulberry, Tenn.

THE POULTRY BUSINESS AS A CALLING.

Time was, a few years ago, when the poultry business was a good deal like the old doctrine that many are called but few were chosen. There was much need of an increase in the ranks, but we had few volunteers. Times have changed very materially until now many are answering the call and seem very much interested in the work. These are the people who will eventually make a success of it. These are the people who have an in-born love for any kind of domestic animals. They enjoy caring for them. Poultry culture is peculiar in that it attracts people from all walks of life. Rich and poor alike find pleasure and profit in the work.

ADVANTAGES—One reason why so many people take hold of the work is that a right good start can be made in the business with a small amount of money. Any one satisfied with a small number of fowls to start with,

Spain's Barred Rocks and Mammoth Bronze Turkeys

Which have won more first prizes in the State than any other exhibitor, and created such a sensation. At Lynchburg Poultry show: 1st pullet-bred; 1st and 5th pens, and silver cup best pen in the show, all varieties competing. Judge Kenner said that it was the "strongest class of B. P. Rocks that he had handled this season," and he had just judged Philadelphia show. Tidewater Poultry show, Norfolk, Va.: 3d cock; 2d hen; 2d and 3d cockerels; 1st pullet; 1st pen; 1st pullet-bred yard; 1st cockerel-bred yard, and special for best display in B. P. Rocks. Eggs, \$1.50 to \$5.00 per 15. My turkeys are champions of the State, winning every first. A few eggs to spare at 50c apiece.

E. C. SPAIN,

Route 2, CHURCH ROAD, VIRGINIA.

WHITE RUNNERS OF QUALITY

PURE HERMITAGE STRAIN

In starting with this popular variety, I got the best stock and eggs that I could buy, and now have a flock of very choice, pure white, racy birds. I have stock hatched from the Hermitage Farm's prize winning pens. Eggs, \$3.00 per 12 straight. I also have Brown Leghorn and White Orpington (Kellerstrass strain) chickens. Both noted for their laying qualities. Eggs, \$1.50 per setting; \$2.50 per 30; \$3.75 per 45. Member National White Runner Duck Club.

MISS F. K. WEISIGER

ROUTE 6, PRESCOTT, ARKANSAS.

PURE STANDARD FAWN AND WHITE

INDIAN RUNNER DUCKS

EGGS ONLY FOR SALE—Booking orders for eggs now. Write for mating list. Winning at Armory show Louisville, Kentucky, December, 1912, 4th cock; 2d cockerel; 5th pullet. Indianapolis, Indiana, January, 1913, 2d cock; 2d cockerel; 1st, 2d, 3d pullet, and 1st pen. Cincinnati show, January, 1913, 1st cock; 1st cockerel; 1st, 2d, 3d pullet, and 1st pen.

JOSEPH BAKER, Route 1, EAGLE STATION, KY.

Prize Winning BUFF ORPINGTON DUCKS

I have the entire stock of BUFF ORPINGTON DUCKS of The Copperas Falls Farm, including their first prize winners at Nashville, 1912, State Fair; Memphis, 1912, Tri-State Fair; Chattanooga, 1912, and Atlanta. I will sell eggs from these fine ducks for \$3.00 per 12. I also have a pen of high class PARTRIDGE ROCKS, eggs, \$5.00 per 15; and a grand pen of WHITE LEGHORNS, eggs at \$2.00 per 15. Write for mating list; it's free.

G. B. MOORHEAD,

LYNCHBURG, TENNESSEE

CLEVELAND'S BARRED ROCKS

In the strongest competition my ROCKS won at the Spartanburg show, 1912, 1st cock; 1st, 2d, 5th hen; 1st, 3d, 5th pullet; 1st pen. 1913, 2d cock; 3d, 5th hen; 2d, 3d, 4th, 5th pullet; 1st pen. My pens are mated for best results and will produce fine chicks. Eggs, \$2.00 per 15.

R. B. CLEVELAND -- SPARTANBURG, S. C.

can, by judicious handling, soon have a right good supply on hand. This investment if properly made will yield prompt and reasonable returns. For starting in the business, if you have not the place already, you can usually get for a reasonable price, land well suited for the business, for the reason that it does not require rich land for the work. In fact, a rather poor rolling ridge is really better for poultry than rich low soil.

Fowls can be made to utilize many of the waste products of the farm, garden or dairy. In fact, these products make the very best adjuncts that one can use with the grain feeds.

IMPORTANCE—As an indication of the importance of the poultry industry at this time may be noted by the great and growing business in incubators, brooders and poultry supplies of all kinds; feedstuffs are now shipped by the carload to almost every town of any size in this country, specially prepared for the growing of poul-

try in its various stages and conditions. All this to say nothing of the great number of poultry exhibitions held in this country.

The first essential for a good poultryman is a genuine, practical liking for the fowls and the work. This quality should insure such a strong personal interest in all matters pertaining to the ins and outs of the work that every little matter will be as well looked after as though it were the only thing to be done. Under such conditions, most things must go right, and would soon be detected if they did go wrong.

The poultryman must stick to his business. There will be no time to go off fishing for weeks at a time and leave the business in the hands of inexperienced persons. Constant alertness and reasonable aggressiveness are great factors in pushing your plans to success and maintaining the business in a satisfactory and profitable condition.

DUCKS--DUCKS--DUCKS

My string of winnings at the Alabama Poultry Show, December, 1912, where they displayed the largest exhibit of **Indian Runners** in America, speak for the quality of my flock. My Whites taking 1st and 2d hen; 2d and 3d pullet. My **Walton Imported English Runners** making a clean sweep of all the prizes except 3d and 5th hen. My Whites are direct from the Pacific Coast and winners at the leading Northern shows. Book your orders today. Start right as it takes quality to win.

Eggs, \$5.00, \$3.00, \$2.00 per setting; from the best in the land.

T. M. DYER -- 200 Emma Ave. -- **BIRMINGHAM, ALA.**

Shelley's White Indian Runners

Are the best in the South Central States, as my winnings at Tennessee State Fair (where I met and defeated some of the biggest breeders) will show. There is not a duck in my yards that would not do honor to any show-room. My prices for this high-class stuff are reasonable. Baby ducks and eggs at all times. If interested write me quick, for folder, prices and further information, and get started right. I also breed **BARRED, WHITE** and **BUFF PLYMOUTH ROCKS**, and **BUFF COCHIN BANTAMS**, of high quality.

G. C. SHELLEY -- **DECHERD, TENN.**

State Secretary National White Indian Runner Duck Club.


FAWN and WHITE RUNNERS

Pure white egg strain. Eggs, \$2.00 per dozen. Winners at Memphis, Jackson, Miss., New Orleans. **GEORGE A. WILSON, Jr., Greenwood, Miss.**

To clinch matters, the leader in poultrydom usually has the shrewdness of a leader in the business world.

True, he may not possess the business of the latter, but he will have the natural business intuition that is essential to success. He will see the best of possibilities as they come along and is ever ready to take advantage of them.—F. J. Marshall in Atlanta Georgian.

A NEW WAY TO KEEP EGGS

ONSIDERING that there are now so many ways of preserving eggs "perfectly fresh," it is somewhat remarkable that these articles of food are so difficult to obtain in this condition. The latest plan involves the exhaustion of all contained or dissolved air in the egg and the substitution of an atmosphere of mixed nitrogen and carbon dioxide. Mr. Santolyne, who describes the method in *Cosmos* (Paris, August 22), tells us that the process now most used in France employs limewater, but that cold storage still remains the best way of preserving eggs properly. The new gas process, just noted, is used in conjunction with cold storage, and enables the eggs to be kept for some time after removal from the refrigerating

chambers, without impairment of quality. Says Mr. Santolyne:

"The method consists of keeping the egg in an inert atmosphere of carbonic acid and nitrogen. The eggs are placed in tin cases holding 500 each. These cases are then surrounded with two wooden frames, an outer one to enable the cases to be set in cold storage chambers, and an inner to facilitate the circulation of the gaseous atmosphere around the eggs. A little anhydrous chlorate of lime is placed within to absorb the moisture, and then the cover is soldered on, leaving a small hole about one-quarter inch in diameter. The cases are then introduced into a horizontal receptacle in which a vacuum is produced, thus removing the air surrounding the eggs and the gases dissolved in their albumen. Then there is introduced carbonic gas, previously heated. This is all done slowly, to enable the gas to penetrate into the egg, until the pressure gage remains stationary. Excessive pressure is avoided, as it might be injurious to the eggs. With a vacuum pump a certain quantity of the carbonic gas is now removed and replaced with compressed nitrogen. Then the cases are removed from the receptacle, a drop of solder is placed on the hole in the cover, and they are placed in cold storage at 35 degrees.

It is unnecessary now to take care of the ventilation of the cold chamber or of the moisture of its air.

"The advantage of this system, the author tells us, are as follows: There is no evaporation at the surface of the eggs, no phenomena of oxidation, and no stale taste; they may be eaten from the shell even after ten months, and the albumen preserves the fine whitish tint that it has in fresh-laid eggs. The eggs may be kept some little time after being taken from cold storage before being delivered to the consumer. This is not the case with eggs preserved by cold alone. Bacilli, bacteria, and molds are killed by the cold and the gases, so that there are no moldy or decayed eggs and no loss. The cost is not much more than that of preservation by cold alone. The tin case, holding 500 eggs, costs \$1.60 and accommodation for 1,000 eggs, therefore, costs \$3.20. These cases may last ten years. All told, the extra expense comes to about 40 cents per thousand eggs."—The Literary Digest.

WHERE TO PUT THE INCUBATOR.

The cellar is an excellent place to put the incubator. It is usually warm, dry, and not used in winter enough so that draughts will enter. A third-story room is also a good place; but with lamp-incubators there is a necessity for watching them closely, and the steps up and down stairs do not appeal to many. If the farmer wishes to have just one incubator, not owning a house for such purpose, the cellar will prove the best place. Incubators should be kept out of all draughts; the temperature from outside readily affects the eggs. A uniform, even heat must be maintained and a place in or near the house is much better than the barn. Of course where several incubators are put into operation, the poultryman must provide a place for them where every one will be given an equal, fair chance.—Poultry Topic.

The Industrious Hen, Three Years
Only One Dollar.

IMPORTED WHITE INDIAN RUNNER DUCKS

1st Pen and 1st Drake at New York, Dec., 1912, also 1st Pen at California State. If you would win, buy stock from the Farm that produces winners
SOUTHERN POULTRY FARM Wade Hampton, Prop. ROGERSVILLE, TENN.

POULTRY
LIFE INSURANCE

ZENOLEUM

KILLS LICE AND MITES

DISINFECTS the Hen House, Brooder and Incubator. CURES Roup, Scaleg Leg, Canker, Cholera. PREVENTS White Diarrhoea

Endorsed by 50 Experiment Stations

Every person interested in the causes and symptoms of all poultry diseases should read CHICKEN CHAT—Free if you ask for it. It names diseases, and suggests methods for curing them, and offers ideas for preventing contagion and infection.

The most eminent poultry authorities in the world have contributed their stories to this book. An interesting report is made by the Ontario Government poultry expert, Professor Graham, in regard to his successful handling of incubators, and the prevention of white diarrhoea in his hatches.

Ask the Druggist or Poultry Supply Man

At dealers 8 oz., 25 cts; Quart, 50 cts; Gal., \$1.50
Postpaid 8 oz., 35 cts; Quart, 65 cts; Gal., \$1.50

The ZENNER DISINFECTANT CO.
201 Lafayette Ave., Detroit, Mich.

Poultry Disease
Department

By J. A. THORNHILL, Hartselle, Alabama

Question. J. Q. W., Fla.—Please advise me through the "Hen," how to successfully hatch duck eggs in an incubator—temperature, cooling, turning, etc. Have taken off two hatches with only 50 per cent results. Ducks die in the shell about the 23rd day, and some seem perfectly developed. I held the temperature near 102 degrees, first two weeks; 103 degrees, third and fourth week, and higher while hatch was coming off, giving plenty of moisture.

Answer. As a rule, it will be found best to run the temperature a little lower at hatching time than during incubation of the eggs. I always make it a rule to lower the temperature to 102 degrees, and sometimes 101 degrees during the last 48 hours of a hatch, and it has always proven satisfactory. If all conditions outlined in the rules sent with your incubator, were followed, and the eggs were fresh when set, I believe the fault lies in the parent ducks. You may have them too fat, or they may not be getting enough green food, or exercise, or fresh water. Many meet the same trouble in artificial incubation that you have, and we all at times ask the question, "Why do chicks die in the shell about the 19th or 20th day of incubation?" Too high or too low temperature, not sufficient or too much moisture, and the

Buff ORPINGTON DUX

America's best. Won 1st young drake, 1st old drake, 1st young duck and 1st old drake, and special for best drake at Indianapolis, 1912. This was the greatest Buff Orpington Duck Show ever held in America. Chicago, December, 1912, 1st drake, 2nd duck. Send stamp for fine illustrated catalogue. Eggs, \$3.00 and \$5.00 per 12.

B. O. SWAIM -:- Route 1 -:- ZIONSVILLE, IND.

Poultry Judge; Secretary Buff Orpington Duck Club.



S. C. BUFF ORPINGTONS

Special Mating. Have one yard for the ultra fastidious headed by first cock, New Orleans, La., 1912, mated to such females as 1st Memphis hen; 2d Birmingham hen; 2d Indiana State Fair hen; 1st and 2d pullet, Birmingham, Ala., and 5th Cincinnati hen. Eggs—\$8.00 per 15 straight.

L. A. BUZARD -:- -:- LAMISON, ALABAMA

MRS. CALLAWAY'S REDS

"Mrs. Callaway's REDS won at the leading shows the past season, and her birds not only are correct in color, type and size, and wonderful layers, but have that rich, black color in wings and tail that is required to win the blues in hot competition. If you want to get right in REDS buy a setting of eggs, or a cockerel of the Callaway strain."

Atlanta Journal.

Eggs from my three best matings, all headed by first prize cockerels at Atlanta, Augusta and Macon, at \$25.00 per setting. Some eggs from each pen. Pens headed by cockerels that were head of winning pens at Augusta, Macon and Hagerstown, at \$5.00 per setting, or \$25.00 per hundred. Other fine matings of same line of blood at \$3.00 per fifteen, \$5.00 per thirty, or \$10.00 per hundred. I have as fine REDS as can be found in America, and can start you right or furnish you blood that will improve your flocks.

MRS. P. T. CALLAWAY, - - - Box C, WASHINGTON, GEORGIA.

vitality of the breeding stock at time of the eggs being developed in the ovaries of the hen, and the germ of the male before being transmitted to the female organs, are all contributory causes. Often, a slight change in the care and feeding of the parent stock or the males changed, will correct the troubles some. Eggs from hens on free range, are affected less than are those from hens in confinement.

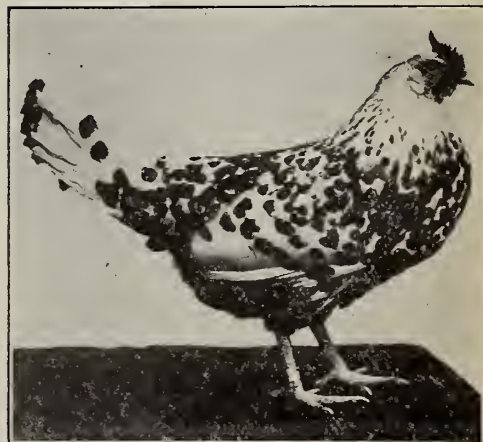
Q. W. A. F., Rock Hill, S. C.—(1) How many eggs as a rule will hens lay before wanting to set? (2) Can beef fat be fed to laying hens? (3) How many hens can be kept on an acre of land? (4) Will you give a house plan that will accommodate them?

A. The exact number cannot be given. Some lay ten or twelve, while others will lay fifty. (2) No; fat is seldom fed except when fowls are being finished for the markets. (3) It depends upon breed and management given. If for egg production, about 400. (4) If I were building the houses, I would build colony houses, large enough to accommodate not more than 100 fowls each. My advice to you and all beginners is, take one or two pens of ten or fifteen hens each, and learn how to successfully manage them; then by degrees develop your

plant into a flock of several hundred birds.

Q. C. V. A., Ala.—My hens are covered with lice. I saw where some one said paint the feathers with kerosene oil, but Mrs. A. read in an article in the "Hen," that the oil would kill poultry, if applied too freely on them.

A. Never use kerosene oil, on the feathers of poultry, it goes to the skin and will blister. The oil will destroy the scab mite, which causes scaly legs, if the bird's legs are dipped



"Belle"—First Prize Silver Spangled Hamburg Hen, Sevierville, Tenn., 1913, Owned by W. E. Watson, Sevierville, Tennessee.

EGGS for HATCHING from PRIZE WINNING BARRED PLYMOUTH ROCKS Only PULLET MATINGS

Pens headed by unusually fine pullet-bred males. Eggs, \$3.00 and \$5.00 per 15; fertility and quality guaranteed. Information gladly furnished.

H. W. WHITE

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Box 474

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CHARLESTON, S. C.

DENSMORE'S Single Comb White LEGHORNS

WIN, LAY AND PAY

We guarantee the safe arrival of all chicks and replace all infertile eggs. A few choice cockerels and pullets for sale. Write for prices and mating list for 1913. 1,000 breeders.

THE DENSMORE POULTRY FARM, Inc. -- ROANOKE, VIRGINIA



Mammoth Bronze TURKEYS for Sale

Old and young stock from two magnificent flocks, mated for largest size and best plumage. When buying be sure you buy the best. My breeding toms for six years have weighed from 43 to 50 lbs. at 18 and 20 months of age. Won many prizes in the leading shows, scoring from 96 to 97½ points. I can furnish you young stock that will grow that way for you. Do not delay buying your breeding stock early. Also Barred Plymouth Rock Chickens from the best prize-winning blood. Eggs in season. Member A. P. A. MRS. J. C. SHOFNER, Booneville Poultry Yards, Route 1, Mulberry, Tenn.

JEFFREY & HERVEY Raleigh N. Carolina

Specialty breeders of BUFF PLYMOUTH ROCKS, undisputed champions of the South.

Winning 1st cockerel; 3d and 5th hens; special for best male; Hagerstown, Maryland, Oct., 1912. 1st, 2d, 4th cock; 1st 2d, 3d, 4th, 5th hen; 1st and 4th cockerel; 3d and 5th pullet; 3d pen, Atlanta, Georgia, Dec., 1912. Show birds and great breeders for sale. Pen—1 male and 4 females, \$10.00. Write for 1913 mating list.

into it up to hock joints, but no higher. Secure a lice powder to rid your hens of lice.

An Atlanta, Ga., subscriber asks the question, "Why is it that the editors of poultry papers do not print formulas for mixing poultry feeds and medicine, so that their readers will not be compelled to pay so much for them?" He failed to sign his name.

A. Such formulas as you mention are often seen in poultry journals. My advice to a beginner though, is to buy his supplies already mixed, instead of trying to do the mixing at home. There are many reasons for it too.

Q. S. S., Ala.—I have an extra good looking R. I. Red cockerel on surface, also has good under color, except in one section on back there is a little smut. Is he likely to moult this out? Would you mate him, or sell him as a common market fowl?

A. If you have some light hens, mate the cockerel to them, but if your hens are extra dark, and have much smut in undercolor, I would sell the bird to some one for a breeder and get another one for breeding.

Q. L. M. K., Morristown, Tenn.—Several days ago, I observed a large knot on one side of the head of a fine young cockerel. The whole side of the face was distended to the size and shape of a walnut. I could detect no fever; the other side of the head was perfectly normal, the eye bright, and he was active; apparently not sick at all; its appetite was not affected,

though, its craw never seemed full; he had no cold, no discharge from nostrils, no fever and no symptoms of roup. For three days, twice a day, I applied hot cloths to the swelled side for ten or fifteen minutes at a time, and then dressed it with a soothing ointment. I could detect no apparent changes, after three days of this treatment. He did not lose flesh or apparently get any better or worse. Since then I have done nothing, and he is yet in the same condition. Can you tell me the disease this bird has? Is it dangerous or contagious? Can it be cured and how?

A. Your cockerel has a cankerous growth between the outside and inside skin, and affected side of face; examine closely, and a small opening or gland will be seen in the corner of the mouth. Put bird under left arm, and with left hand hold him securely, put the thumb of the right hand in the birds mouth behind the lump, with the hand under the head, and the middle finger on the outside, behind the swelling, now press firmly until the cheesy lump comes out. After getting the growth removed, get some permanganate of potash and force a small piece into the cavity where the cheesy lump came out. There are various causes for this trouble, chief one of which is, too much musty food, or litter in reach of patient.

We will answer any question pertaining to poultry culture, for our readers. All we ask is, that you send a self-addressed envelope. Send all such letters to J. A. Thornhill, New Decatur, Ala.

HURRAH FOR PARCEL POST.

Oh, I see the postman coming,
Sorter wobbly in the legs,
With a dozen pounds of butter
And a crate or two of eggs.

There's a peck of Irish potatoes
In your Uncle Sammy's rig,
And a sack or two of flour,
And a puppy and a pig.

Oh, the postman is a blessing
In these glorious latter days;
We rejoice to see him coming,
And we love to sing his praise.

Glory! See the pretty bundles
All piled up here in the door!
Guess they came from Roars & Saw-
bucks—

Ever see the like before?

Here's a great big umbrella
That will surely turn the rain,
And a suit of clothes for Tommy,
And a dress for Liza Jane.

Here's a pair of shoes for Daddy,
That he ordered t'other day,
And a set of wagon harness,
And a bale of clover hay.

My! Here's several heads of cabbage,
And a poke of turnip greens,
And a basket full of apples
And a jar of pickled beans.

"Hold on, postman, where's my letters
Some one surely must have wrote."
"Didn't bring no letters, mister—
This was all that I could tote."

—Ex.

AN UNSURPASSED RECORD.

"Bred in the Bone" is no doubt the solution to the wonderful productive vitality as vouched for by the records in the case of the W. P. Rock hen mentioned in the following letter. It is a fact which cannot be refuted, that the vital foundation must be laid in young chicks, if the matured fowls are to be strong and productive, and Mr. Bickerdike (as well as many thousands of other breeders of fine poultry) has found the successful route to travel; but read the letter:

Pleasant View Poultry Farm.

Millersville, Ill., Dec. 16, 1912.

W. F. Chamberlain Feed Co.,
St. Louis, Mo.

Gentlemen—You will probably be interested to know that my White Plymouth Rock Hen, "Lady Showyou," winner of the National Egg Laying Contest at Mountain Grove, Mo., with a record of 82 eggs in 82 days and 281 eggs in the year, and recently sold for the sum of \$800.00, was reared on Chamberlain's Perfect Chick Feed.

It takes great vigor to make such an egg record, and your Feed gives the Chicks the right vigor. I have used it in rearing my Pedigreed White Plymouth Rocks for many years.

You are at liberty too make any use of this letter you wish. Very truly,
J. A. Bickerdike.



A. P. A. Gold Medal. Won at Richmond, Virginia, for Champion Cockerel.

"BLUE-BAR" EGGS FOR HATCHING

Send for my handsome new catalogue and look over the descriptions of the wonderful pens I have mated for 1913. Compare these with the matings of any Barred Rock breeder anywhere. Never before were so many prize winners grouped together. Every egg offered is from a prize winner.

My "BLUE-BARS" won a grand total of 156 ribbons and special prizes in 1911 and 1912.

EGGS—\$2.00 to \$7.50 per fifteen.

Vigorous, strong Barred cockerels, \$3.00 to \$10.00 each.

Trios—\$10.00, \$15.00 and up.

L. H. READE, (Highland Park), RICHMOND, VA.

Originator of the "BLUE-BAR" strain of Barred Plymouth Rocks.



PRACTICAL FARM POULTRY HOUSE CONSTRUCTION.

(Continued from page 374.)

dition. Lean-to's were added to the ends. In some houses the roosting quarters were placed in the back of the house with partitions between them and the scratching compartment. With the introduction of muslin fronts for ventilation, the partition gave way to a curtain or muslin frame which dropped down in such a way as to enclose the birds in a small roosting space. For a time the practice of using the curtain front over the roosting quarters was quite popular but this, too, has fallen into disuse even in the extreme cold climates. Fresh air has come to be recognized as an essential at night as well as in the day time, and the modern poultry house combines the roosting quarters and scratching shed into one general room, thus securing economy in construction and providing an extra amount of room for scratching purposes.

Types of Roofs.

There are three popular types of roofs used in poultry house construction, the shed roof, the gable roof, and the combination. Occasionally there is a fourth type known as the semi-monitor. The shed or single span roof is most popular because of its simplicity and economy of construction. It slopes one way, thus throwing the water to one side of the house. It requires less cutting of rafters, permits the greatest possible height on the south or front side, and is best adapted to a flat roof and the use of roofing paper, since it does not receive the direct rays of the sun. For houses less than 14 feet in width the shed roof is most advisable, but for wider houses other styles should be used. The reason is that houses over 14 feet wide would require either a very flat roof or else the front would need to be excessively high, thus causing greater cost of material. The back too would have to be higher with a flat roof in order to enable one to work efficiently inside the

COWAN'S ^{White} LEGHORNS ^{Mottled} ANCONAS White, and Fawn and White INDIAN RUNNER DUCKS

Win the blue and fill the egg basket while others are loafing. Pen now mated that will produce winners for the big shows next fall. Write for show record and mating list. Member National White Runner Duck Club.

THOS. COWAN

--

DECHERD, TENN.

ROYAL BLUE AND LATHAM STRAINS

Barred PLYMOUTH ROCKS

Winners at Lexington, Louisville, Ky., Nashville and Knoxville, Tenn., 1912 and 1913. We breed ROCKS that have that bright, snappy color, and even barring, so hard to get. We also have large size and correct type. Exhibition mating, \$5.00 per 15; \$8.00 per 30. Choice mating, \$3.00 per 15; \$5.00 per 30.

BLYTHE BROTHERS

--

Box B

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FRANKFORT, KENTUCKY

house. This would mean unnecessary expense. In addition, especially where snow is quite abundant, a wider roof would need additional support, such as posts, etc., which might interfere with the interior arrangement.

The gable roof or roof with double spans of equal length is used where houses wider than 14 feet are built, or where the poultry house is designed to harmonize with the other farm buildings. The gable roof allows a steeper pitch which is desirable in the use of shingles. This type of roof carries a portion of the water to the front of the house, exposes one-half of the roof to the direct sunlight, and the back wall of the house must be as high as the front wall, which means greater expense in the back ends and partitions and greater air space to warm in cold weather. It also requires more rafter cutting than does the shed roof.

The combination roof or roofs of unequal spans, the shorter being about one-third the length of the longer, combines the excellent features of the two types. This roof need be no higher in the back than the shed roof, and often not so high, thus eliminating extra expense involved in the construction of the gable roof. Also, it need

be only as high as necessary for the efficient lighting of the interior and is thus more economical than the shed roof in this respect. By use of this type of roof steeper pitches can be obtained without use of extra material for the pitch determines the amount of material required in constructing a roof. From the standpoint of economy of building material the combination roof has many desirable features.

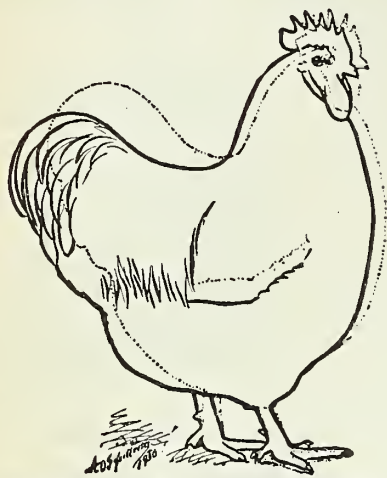
The semi-monitor roof is a type quite often seen in excessively wide houses or in remodeled shed roof houses. The roof is designed so as to efficiently light the back part of the house. This is accomplished by joining the southern span to the northern span far enough below the latter to leave a space for windows, which are placed vertically in the intervening space. Quite often a shed roof house is enlarged by adding a lean-to on the south side, thus making a semi-monitor roof and increasing the size of the house with very little additional expense. This type of roof can be used advantageously only for special purposes. As a rule the type of house determines the style of roof.

Roofing Material.

Poultry houses are generally cover-

The . . . Orpingtons

Black, Buff and White



Specimen Illustration (much reduced)

A COMPLETE AND AUTHORITY TEXT BOOK and Instructive Treatise devoted to the Orpington Fowl, the most popular breed in England and one of the leading favorites of Standard-bred Poultry in America. This book (80 large pages and cover) tells how to select breeders and how to mate for best results. Care, feeding and management fully discussed.

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Chapter VIII—What Breeders Say
Chapter IX—Orpingtons as Utility Fowl

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Text and Illustrations are based on the changes in the 1910 American Standard of Perfection

Tells what changes were made, why they were made and how they will affect the mating and breeding problems that now confront the breeders of Orpingtons. Progressive breeders and exhibitors who wish to keep abreast of the times cannot afford to be without this book. Text supplemented by over sixty illustrations, by Sewell, Schilling and Burgess, a study in pictures that will prove valuable to breeders, bringing clearly before the eyes of all Orpington admirers, in the minutest detail, every point of value in the fowl. The text and illustrations not only bring the book down to date, but anticipate the advancement of the breed for years to come.

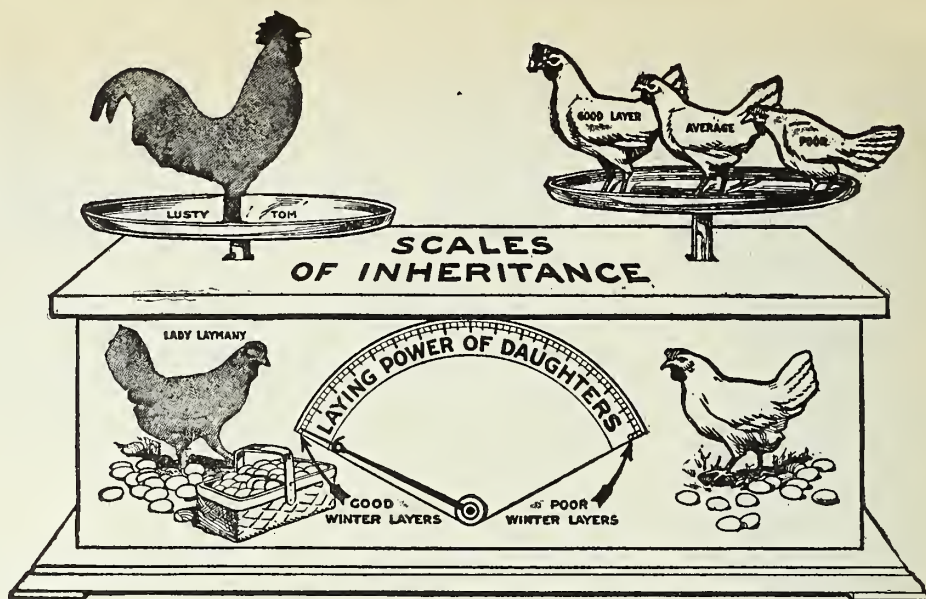
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The Male is More Than Half the Flock

Dr. Raymond Pearle of the Maine Experiment Station has lately made known to the world a wonderful discovery, as the result of careful experiments with hundreds of laying hens, covering a period of nine years.

Dr. Pearle has discovered that the ability to lay a large number of eggs is not inherited by a pullet from her mother, but that a male from a high producing hen gives to his daughters the character of large egg-production, regardless of the number of eggs laid by their mothers.

He found that the only way to increase the number of eggs per hen per year is by the use of male birds in the breeding pen which are the sons of heavy laying hens. The males in Yesterlaid breeding pens are from trapped heavy laying hens—vigorous, sturdy fellows that pass their vigor on to their chicks. Hereditary constitutional vigor, that's what you want in your chicks.

Yesterlaid breeders produce perfectly shaped, chalk-white, big eggs; their pullets lay early—at four months—in customers' hands. Yesterlaid Leghorns are exhibition fowls too. Chicks hatched from their eggs win in the hands of customers; names on request.

The Yesterlaid method of selecting, mating and feeding insures heavy laying and big hatches. The State Experiment Stations and other institutions recognize the superiority of Yesterlaid Leghorns. Fifteen Experiment Stations have bought Yesterlaid stock or eggs.

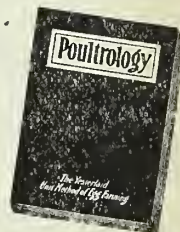
If you want Yesterlaid eggs that will hatch big, husky quick-growing chicks for you this season, order at once. Last season Yesterlaid customers had to "stand in line" and wait their turn for hatching eggs—the demand could not be fully supplied until almost June. Don't you be one that has to wait this season. Place your order now.

The liberal Yesterlaid Guarantee insures you absolutely satisfaction.

POULTROLOGY—"Best Poultry Book Ever Written."

That's what the people say who have read it. Beautifully bound; 144 pages; 70 pictures, drawings and plans. Tells how to feed hens to make them lay when the weather is coldest; how to get 60 cents a dozen for eggs when the market price is 30 cents; how to mix rations that make chicks grow rapidly, that make hens lay, and that fatten broilers in 7 to 12 days, and hundreds of other things you want to know. Price \$1.00, post paid. Write for special new customer offer which includes "Poultryology" free.

YESTERLAID EGG FARMS CO., Dept. 4, PACIFIC, MISSOURI



ed with roofing paper instead of shingles. The former has several advantages: (1) it can be laid easily and quickly; (2) it is more durable than shingles on flat roofs; (3) it is absolutely tight and; (4) it is relatively cheap. Roofing paper should be laid on smooth surfaces. The extra expense in the use of shiplap as roof boards will be compensated for by the longer life of the roofing paper. A good grade of paper is usually the least expensive in the long run, and requires less attention. Cattle and horses are liable to damage the roofs of paper covered houses by chewing the corners. They should be kept out of the poultry yards. Good grades of shingles are, in general, more durable than paper on roofs of one-sixth pitch or more, but unless laid on a tight surface there is danger of drafts and a cold house.

Foundation.

Stationary poultry houses should always be built on a foundation. It is poor economy to allow the sills to rest on the ground and keep replacing them as they decay, except in the case of portable houses. Stone or brick may be used for foundations,

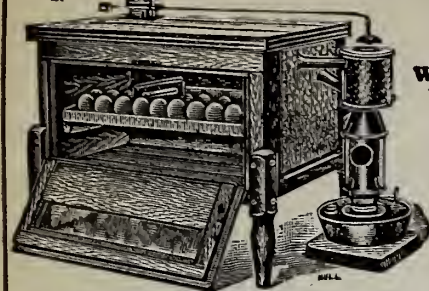
but the best material, all things considered, is concrete. Posts are objectionable because they are short-lived. Stone blocks are subject to heaving by frost and settling, the result being warped houses in which doors and windows open and shut with difficulty. The concrete foundation is not only easier to construct, but prevents rats from burrowing underneath the floor.

A few simple rules should be observed in building a concrete foundation. A trench should be built below ground and filled with concrete and a small form built for the portion above ground. The trench should extend below the frost line, usually 14 to 18 inches below ground. This foundation need not be as heavy as for larger buildings. Eight inches at the base and five inches at the top is usually sufficient. It should extend about eight inches above the ground level, and the ground sloped so as to carry the surface water away from the house. Inserting a few bolts in the concrete so as to fasten the house to the foundation prevents injury from severe winds and renders the building more stable generally.

Floors.

A good floor should exclude vermin

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and prevent dampness. The three common types of floor are earth, wood, and concrete. In portable houses either the wood or earth floors are used, while all types are seen in stationary houses. The floor in a stationary house should be raised 6 or 8 inches above the ground level to prevent surface water from affecting it.

Earth floors are most common because of economy in construction. Indeed a good earth floor is probably the most desirable if dampness can be prevented. On wet soils special precautions are necessary to prevent water from working up from beneath. There should be a two or three inch fill of some coarse material, such as cobble stones or coarse cinders, and this covered with a layer of thick clay so that the loose soil from above will not work down between the coarse material. By covering the clay with two or three inches of sand or soil dryness is secured and an ideal floor is obtained. A common mistake in the use of earth floors is to remove some of the dirt each cleaning time, no effort being made to replace the soil removed, often resulting in the floor being lower than the ground outside. One of the chief disadvantages of earth floors comes from invasion of rats. Burying wire screen often prevents their working up from beneath, however. Cinders are also said to check the invasion. Another disadvantage of earth floors is that they dirty the litter used in the house, making it necessary to remove the foul dirt and replace with fresh to insure perfect health. In spite of these disadvantages, its desirable features, especially economy of construction, make the earth floor one of the most popular used.

Wood floors are rarely used in other than portable poultry houses. Not only are they expensive, but in stationary houses, unless the floor is raised to considerable height, they furnish an excellent harbor for rats.

Concrete floors are rapidly coming into use. The first cost is high, but it is probably the cheapest floor of all in the end. The litter does not require changing as often as on earth floors and all expense of removing and replacing the soil each year is eliminated. It is also rat proof, and can be easily and thoroughly disinfected in case of disease. Poultry should not be permitted to run on a bare floor, but there should be a heavy straw litter in which the grain can be fed. A bare floor is cold and causes deformed

Johnson's Black Langshans

My matings for 1913 are the finest in the South. My pens contain winners at America's best shows, including Madison Square Garden, Grand Central Palace, Chicago, Indianapolis, Baltimore, Atlanta, and other leading Southern shows. My 1913 mating list is ready and will be mailed on request.

R. B. JOHNSON ∴ P. O. Box 138 ∴ SPARTANBURG, S. C.

S. C. BUFF LEGHORNS

At the great Atlanta Show, December, 1912, I was the only Southern breeder to win a blue ribbon. I won first cockerel in a class of eighteen cockerels, the cream of the country. This together with the great winnings at Birmingham, Augusta, New Orleans and Tupelo, prove their **SUPERIOR QUALITY**. Write for mating list.

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WHITE
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ORPINGTONS=WHITE WYANDOTTES
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1,000 breeders. Exhibition stock. Day-old chicks and ducklings. We make a specialty of eight weeks' old ducks—birds out of danger and practically grown. We are contracting rapidly and orders should be sent in early. Safe delivery on everything guaranteed. Write for catalogue.

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White WYANDOTTES

FIRST, LAST AND ALL THE TIME big winners at all the leading shows. Line bred and trap-nested for years. Grand chicks and eggs from our celebrated strain of heavy laying utility and exhibition stock. Every CHICK and EGG guaranteed to arrive in perfect condition. Catalogue free.

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feet and rheumatism unless covered with the litter. The construction of a concrete floor is comparatively simple. By filling in a few inches of coarse material such as cinders, and tamping thoroughly, the floor may be laid at the same time as the wall, without the use of inside forms.

Ventilation.

An abundance of fresh air is the most essential feature in a satisfactory poultry house. The subject of ventilation is a neglected one. Its problem is to secure a sufficient amount of fresh air and yet to avoid drafts. Poorly ventilated quarters are indicated by damp conditions such as frost or moisture on the walls, roofs, and windows; by the litter being tough and damp, also, by foul odors or a closeness in the house. Such conditions result in an abundance of colds and in weakened vitality of the stock.

When these conditions occur, better ventilation should be secured, either by increasing the number of ventilating devices or by opening the windows more. Drafts may be avoided by completely closing the back and ends of the house so that all the openings will be on the south side. With the exception of the open front the openings should be high enough so that the air

circulates above the birds during the day time, when they are on the feeding floor.

Ventilation is secured by the use of patent ventilators, by straw lofts, by muslin or burlap frames, and by the open front. Patent ventilating systems such as the King System are rarely used in poultry houses. Such a system is unsatisfactory in low buildings and the cost of installing it is relatively high. High shafts extending above the buildings are an advantage but this incurs too much expense for the practical poultryman.

In the "straw loft" method, the ceiling of the house has cracks about one inch wide between the boards. Above the ceiling is a layer of loose straw a foot or more deep. The straw absorbs the moisture, thus rendering the house completely dry. The loft has doors at each end. By opening these a free circulation of air is permitted which carries out the moisture and impure air. In severe weather the door on the windward side is closed to prevent the house from becoming cold. The large space above the fowls and the extra ceiling required by the straw loft add to the cost of a house, but old houses can often be remodeled into satisfactory quarters by the introduction of this feature. In the

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for the first three weeks. No feed on earth will give the youngsters such a vigorous start, and the cost is but 1c per chick.

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prevents and cures the bowel troubles which are so common and cause such heavy loss. Just drop the tablets in the drinking water for all broods up to one week of age.

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should be mixed with the daily ration after the third week. It induces rapid growth and early maturity by keeping the digestive system in perfect condition.

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R. H. ANDERSON :-:- LYNCHBURG, VIRGINIA
Member American Black Minorca Club.



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I HAVE ABOUT TWELVE COCKERELS FOR SALE. I won at the Appalachian Exposition, 1st and 3d cockerel, 2d pen and 4th cock. These cockerels are first-class, and satisfaction is guaranteed. Price—\$1.50 to \$2.50. Eggs from exhibition pen, \$2.50 per setting of 15; incubator eggs, \$1.50 per 15; \$4.00 per 50; \$7.50 per 100. I breed Big-Boned, Ringlet Barred Rocks only.

R. H. SHARP :-:- LaFOLLETTE, TENNESSEE

Single Comb BUFF ORPINGTONS Exclusively

PEN WINNERS at Great Southern International Show, Atlanta, 1911, and again 1912. Eggs from these winners, \$5.00 per 15. Other matings at \$3.00.

GEO. C. FIFE :-:- 206 Austell Building :-:- ATLANTA, GEORGIA

Single Comb BUFF ORPINGTONS Exclusively

"DOGGONE GLAD TO LAY"

Have 3 pens mated for the season. Eggs from prize winners. Write me your wants. Satisfaction guaranteed. Life Member American Poultry Association. Member National S. C. Buff Orpington Club. Member Alabama Poultry Association.

FRED S. FLETCHER :-:- 320 South 59th Street :-:- BIRMINGHAM, ALA

summer time the house with the straw loft is much cooler than other houses.

Muslin and burlap are being used quite extensively for convenience in ventilation, the former being preferred because it admits more light and is more durable. There is a constant movement of air through the cloth and this not only supplies fresh air but carries off the foul air and the moisture. The muslin-front house is exceedingly popular because of its low cost and the efficient ventilation it permits without drafts. Muslin is efficient as long as it remains dry but wet cloth retards the movement of the air. The muslin frames should be open a greater portion of the day in order to air the house out thoroughly except in very cold weather. Houses are being built with a large amount of muslin, the amount increasing with the depth of the house. The amount varies from 1 foot of muslin to 20 square feet of floor space in a house 10 feet wide, to 1 square foot of muslin to 10 square feet of floor space in a house 20 feet wide. Since muslin has become so popular and the frames are raised a large portion of the day, many poultrymen have abandoned the use of glass almost entirely, although a combination of glass and muslin is preferable. Where no glass is used, approximately twice the amount of muslin should be installed. The muslin frames require adjusting, and in building care should be observed to consider convenience in that particular. The best kinds of frames are those that slide up and down as the upper sash, or those hinged so as to hang up. The latter is preferable because when open it does not cover the glass. Care should be exercised to prevent birds from using them for nests or for roosting. Small frames are also preferred to large ones because of convenience in handling. Often it is uncomfortable if the entire frame is raised, and yet the house is close and stuffy if all the frames remain closed.

The "open front" or "fresh air" house has become quite popular and is meeting with unusual success. The south side is built very low, usually three or four feet high, and is left entirely open. One might think it would be too cold under such conditions, but experience has proved otherwise. The open front is best adapted to houses 14 to 20 feet wide. The open space varies with the depth of the house. The roosts are placed at the back away from drafts, for the air currents meeting with a solid cushion of air, extend about only half the width of the house. Snows drive in only a short distance. For the farmer's use this house is very satisfactory. Muslin frames require adjusting, and the farmer is usually not there. The open front requires less labor than any other type of house; and while frames might be dropped to advantage in case of driving storms, this disadvantage of the open front is slight as compared to the ease of operating it. The low front necessitates windows in the ends, which, when removed, make a perfect circulation of air in the house during the summer. The open front is not being used on commercial houses of any length be-



Ideal Aluminum Leg Band
To Mark Chickens
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200-41.10; 500-42.50. Price flat and sample 2c.
Frank Myers, Mfr., Box 50, Freeport, Ill.

cause of the problem of lighting the house and also because of the difficulty in cleaning from the lowest side. Good lighting can be secured by the use of the semi-monitor type of roof, and cleaning can be handled by arranging the interior so as to permit the removal of the litter, etc., from the rear. Doubtless the open front will be used more and more in the continuous house when these objections are overcome. As a practical poultry house it has rapidly grown in favor and it is certainly ideal from the standpoint of ventilation.

Lighting.

Properly lighted houses are essential for successful egg production. Dark quarters are always conducive to filth, dampness and disease, and also lessen egg production because of the shorter periods in which a hen can feed. Commercial poultrymen recognize the necessity of abundant lighting, but the farm poultry house is usually lacking in this essential. Too much window space is equally disastrous. Such a house is subject to extremes in temperature, due to warming up on sunshiny days, and radiating a corresponding amount of heat at night. Here, the chickens' combs become tender and more liable to freeze than when in quarters of more even temperature. Another cause of frozen combs is dampness, a damp cold atmosphere being more harmful than a dry continued cold of lower temperature. For this reason the glass front house has been replaced by the modern glass-muslin, and open front types. Glass when used in combination with the muslin, or open front house, should be used in the proportion of one foot of glass to every 14 to 20 square feet of floor space.

A common mistake is to place windows too low. Direct sunlight is as effective in the middle of the pen as near the window. In general the tops of the windows should be nearly one-half as high as the house is wide. In a house 14 feet wide, the tops of the windows should be 6 feet high; in one 16 feet wide, 7 feet high; in one 18 to 20 feet wide, 7½ feet high. All windows should be arranged so as to open or to be adjusted easily. A convenient sized light to use is 8x10 inches or 10x12 inches. Smaller sized panes obstruct light, and larger ones are expensive to repair. Wire screens over the windows exclude sparrows and serve as a protection to the glass in addition to confining the birds.

Tight Walls Necessary.

The walls of a poultry house should be free from cracks which permit drafts to enter. The walls should also afford rigidity to the building. Wall material is generally wood, although concrete and hollow tile are being used to some extent. Single rough boards are perhaps the cheapest material, and will prove satisfactory if the cracks are covered with battens. Rough boards are often covered by

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roofing paper with satisfactory results if the paper is securely fastened. The paper may be rendered more secure by using narrow cleats over the joints, or by nailing to studding before the boards are put on. The latter method not only protects the paper from the wind but furnishes a smooth surface on the interior.

A sheeting of boxing covered first with building paper and then with another layer of boards affords an excellent wall, although somewhat expensive. Sheeting the house on the inside is practiced by some poultrymen, thus leaving a dead air space between the walls—an expensive arrangement although productive of satisfactory results since the interior is much less affected by outside temperature. These air spaces are sometimes stuffed with straw, but results do not warrant such practice. Stuffed air spaces make the house too much like a refrigerator and while the filling may lessen drafts, it is not considered necessary and furnishes an excellent harbor for rats and other vermin. Ordinary drop siding makes an attractive house which can be easily painted, while flooring placed up and down can be used to equal advantage. When matched material is used it should be thoroughly seasoned to prevent cracks caused by shrinking and the joints should be painted while being laid. A tight wall is the essential feature. Extra ceiling does not increase the efficiency of the house and is not advised, although the house will be much cooler in the summer if double walls are used.

Concrete is not extensively used because of the expense and because a solid wall is unsatisfactory, due to its being damp. Hollow blocks counteract



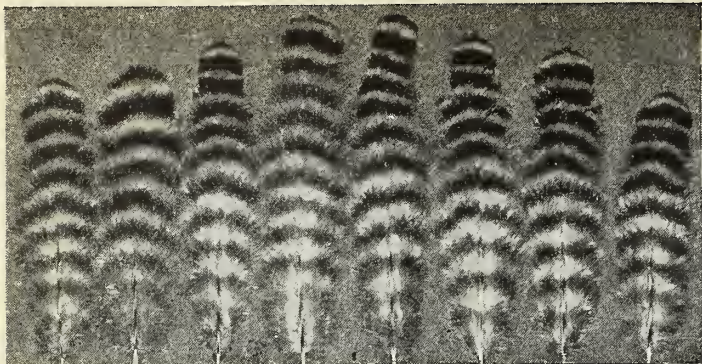
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I won silver cup for best hen in show, at club meet in Pittsburg. Did you ever hear of a Red Hen making that win before? Also minor prizes.
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this tendency and make a satisfactory wall. The use of metal lath, plastered with cement, both inside and outside, will no doubt find a place in poultry house construction as will, also, the use of hollow tile. With walls of such nature, provision should be made to securely fasten the roof by means of bolts set in the upper surface of the wall.

Size of Pen.

The size of the pen should be determined entirely by the use to which it is to be put. In general a pen equal to the width of the house affords the most satisfactory interior arrangement. For breeding purposes, pens to accommodate 8 to 20 birds are the most desirable. Pens for laying stock can be of any size, depending upon the size of the flock. The smaller the pen the greater the production from each individual bird. Small flocks require much care, but larger flocks need greater attention because of the tendency to overlook birds not doing well, and because strong birds overrun the less vigorous. Flocks of 50 to 100 birds are said to be the most economically handled although on commercial poultry farms from 500 to 1,000 birds are often kept in one flock, a practice to be recommended only to those skilled in poultry culture.

Partitions.

Where all the poultry is kept in one

house, a partition should be used to separate the pullets from the hens in early fall. Later on, the pen can be used for breeding stock. In order to break draughts, long houses need solid partitions of boards or wire screen covered with canvas at intervals of 50 feet, although some houses have the solid partition extending only beyond the roosting chamber. All partitions should be solid for at least two feet to prevent male birds from fighting through the wire netting. Doors should be placed in a straight line, and to facilitate labor, a track may be installed in long houses.

Alley Usually Unnecessary.

Unless the house is subject to inspection by visitors, an alley is unnecessary and is an expensive luxury. It occupies a large portion of the house, is expensive to construct, necessitates extra cost to keep clean, increases the probability of draughts, and in general, under such conditions it requires more labor to care for the fowls than where one pen opens into the next.

Interior Arrangement.

Economy of floor space, simplicity of construction, and convenience in handling the fowls, are the essentials to be observed in the arrangement of the interior of a pen. All fixtures should be portable so as to make thor-

ough cleaning easy and should be placed high enough so that the entire floor space may be used as a scratching floor.

Roosts.

Roosts located in the warmest part of the house, generally as far as possible from the front, are the most satisfactory. If they are placed on a level, there will be no tendency for the birds to crowd on the highest. This is important, for often valuable birds are injured by falling when crowded from the roosts. Roosts should be simple in construction, easy to handle, and firm. Poles may be used to advantage, provided they are two inches in diameter. Two inch by four inch material placed on edge with the upper corners rounded make sensible and satisfactory roosts. Generally these may be set in notches along the back of the house, making them easy to remove for cleaning. They should be placed not less than 15 inches from the wall, and one foot apart. Often the roosts are fastened to cross pieces in the form of a frame, these pieces being hinged at the back. By raising these the cleaning of the dropping boards is often made easier. Where hens are apt to perch during the day, they can often be encouraged to use the scratching floor by raising the roosts. The height of roosts from the floor depends largely upon the breed of fowl and upon the height of the house. For heavy breeds, 2 to 3 feet is as high as the bird can safely perch, while for lighter breeds 4 or even 5 feet is often practical. However, one must avoid locating the roosts so the birds are too close to the roof, for in such cases they are much more influenced by outside temperature. Eight to fifteen inches of roosting space should be allowed for each bird.

Droppings Platform.

The use of the droppings platform, is strongly advocated, especially for winter use, because it increases the size of the scratching floor. It also serves to separate the droppings from the scratching floor, thus rendering conditions more healthful. The use of the platform, however, necessitates frequent cleaning. If the poultryman is not willing to take this extra care, it would be better to have the floor beneath the roosts surrounded by a partition high enough to prevent the birds from scratching the litter into the manure rather than to have huge piles of manure close to the fowls. The droppings platform should be

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Winning in seven leading Southern shows in 1911, 1912 and 1913, more than twice as many first prizes as all competitors combined. Won 23 out of a possible 34 firsts

Recent Winnings: Augusta, Ga., 1912—1st, 2d and 4th cock; 1st, 2d and 3d hens; 1st and 2d cockerel; 2d, 3d and 4th pullets; 4th pen. Atlanta, Ga., 1912—5th cock; 2d and 3d cockerels; 1st, 2d and 4th pullets; 2d and 5th pens. Charlotte, N. C., 1913—2d cock; 1st, 2d and 3d hens; 1st cockerel; 1st, 4th and 5th pullets; 2d pen; specials.

Eggs for sale, \$3.00 per 15. Mating list and catalogue now ready.

J. G. ASHE, BREEDER :- RALEIGH, NORTH CAROLINA

placed low enough beneath the roosts to make cleaning easy. Quite often the space beneath the roosts is used for the location of the nests, but this method not only places the nests so low as to darken the back portion of the house, but also tends to lessen the amount of floor space. Flooring is the most satisfactory material to use and if the platform is made in sections it can be more easily handled during cleaning.

Nests.

Darkened nests are the most desirable, for they not only furnish seclusion, which a hen desires, but also tend to lessen the amount of egg eating, a habit more frequent with the use of open nests. Portable nests also facilitate cleaning, and being easily accessible, economize time.

A common method of installing nests is to place them under the edge of the dropping boards. This is a very convenient nest as it requires little material to construct. The hen enters from the rear and the door may be let down from the front to remove the eggs. The objection to this arrangement has already been referred to, and in addition the darkened floor encourages the hen to use the floor as a nest. Frequently eggs remain here for some time because of being overlooked.

A very common nest is one hung on the wall, with a sloping top and runway along front of the nest—suitable darkness being obtained by the use of a burlap curtain over the front of the nest. Open nests made of small boxes nailed to the wall are perhaps the most common, and have the advantage that they can be easily removed for cleaning, or in case of serious infection with vermin, can be destroyed. Tiers of nests are also used in much the same manner.

Trap nests are being used by many breeders. Their use is necessary when individual records are required. In general, they involve too much labor to the farmer or to those not engaged in poultry raising as a business. Material on trap nests should afford about 14 inches of head room, and should be 12 to 14 inches square. Well bedded nests of fine material, probably fine straw or hay, also lessen the number of broken eggs, which may lead to the habit of egg eating.

Insertion of Trap Nests.

A simple trap nest can readily be made: It is 18 inches long with a nest one foot square in the back. The door in front rests upon a small trigger. As the hen enters she raises the door slightly with her back thus releasing the trigger which drops down so as to permit the door to fall on the

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Birds from my yards won at Marion, Fort Wayne, Muncie and Indianapolis, ribbons and cups. Eggs and stock for sale at all times. Send for catalogue.

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Fill the egg crates, win in the show room, and assure your success. My breeding yards are composed of only finest quality. EGGS—\$5.00, \$3.00, \$2.00, \$1.50 per 15. BABY CHICKS double the price of eggs. Eggs from free-range stock, \$7.50 per 100. Let me tell you about my wonderful LAYERS.

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BARRED PLY. ROCKS—WHITE ORPINGTONS S. C. RHODE ISLAND REDS

Eggs for sale from the big 3 breeds. Stock better than ever and eggs reduced to \$1.50 per 15. I can make good money by selling eggs at 10c each, so have added to my stock and reduced the price to 10c. Had rather sell all I get at \$1.50 per setting than to sell only a few at \$2.50 and \$3.00. Can ship by Parcel Post if so desired, cost to be added to price of eggs.

D. R. JAMES, Jr. :- WHITE STONE, VIRGINIA

back of the hen as she continues to enter. This nest is simple and satisfactory.

Another type of trap nest: Two feet long; the door in front is a portion of a cylinder. The two ends which are slightly larger than a quarter of a circle are connected by one inch strips. This is then covered with wire screen and is pivoted so that when open, the door rests nearly on a balance. In entering, the hen touches the door with her back causing it to fall backward, closing the entrance. The dotted lines show the position of the nest when open; the heavy lines when closed.

Dust Bath.

During confinement, the use of a dust bath greatly reduces the problem of combating lice and keeps the fowl in a healthy condition. The proper location for the dust bath is on the south side in the sunlight. There are several methods of securing such a bath. Open boxes are perhaps the most common but have the objection of making the room more or less dusty, filling up with straw and serving as a roosting place during the day, thus becoming dirty. Sometimes the dust bath is enclosed and conveniently arranged for cleaning. Occasionally a small compartment is built on the front of the house, to be used for this purpose. Fine dust such as road dust, fine ashes, etc., make a satisfactory bath, and are more effective if a small amount of insects powder,

lime, or tobacco dust is used in addition.

Water Stands.

Unless the watering devices are placed upon stands, they are constantly being filled with litter from the floor. This disadvantage is overcome by building a stand 12 inches high. Watering equipment should be located with regard to convenience in replacing water. For watering, the use of a pail is perhaps the most convenient, although concrete troughs are sometimes used except during freezing weather. Pans are often used in much the same way. Patent drinking devices are quite often valuable but should be so constructed as to allow taking apart for cleaning purposes, for filthy drinking water is the source of many poultry diseases and their transmission throughout the flock.

Farmer's Colony House.

A good colony house: The house is 14 x 24 and will accommodate from 70 to 100 hens, about the size of the average farm flock. It is 4½ feet high at the back, 6½ feet high in the front and has a combination roof, thus making it attractive as well as convenient. Ventilation is secured by the use of muslin frames used as the upper sash in the window. By hinging windows at the top so as to open in, adjusting can be done from the inside of the house. There is approximately one square foot of muslin to 15 square feet of floor space; also an equal amount of glass. Three roosts, made of 2 x 4s 14 feet long, afford roosting

NOW IS THE TIME TO START

SOUTHERN PEOPLE, TAKE NOTICE. Are you going to sit idle while the Northern and Eastern Breeders take advantage of your opportunity? Do you know that D. W. Young sold over \$30,000 worth of *Single Comb White Leghorns* last year? Why this enormous income? Because the *Single Comb White Leghorn* is the **MOST profitable, EASIEST raised, LEAST costly to maintain, BEST adapted** breed of poultry ever produced. *Single Comb White Leghorns* are the **BEST** for **SOUTHERN** climate. My strains have been bred for eight years for heavy laying of large white eggs. Eggs from free range stock, \$2.00 per 15; \$5.00 for 45; \$10.00 for 100, or \$75.00 per 1,000. Baby chicks, \$6.25 for 25; \$9.00 for 50; \$15.00 for 100. A few eggs from pens mated to produce prize winners at \$5.00 per setting.

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Single Comb WHITE LECHORNS, WYANDOTTES

My winnings in four big shows this season stamp my birds as the right ones to hatch chicks from. Write for prices on eggs. Have a few **OWEN'S FARMS BUFF ORPINGTONS** for sale; also **BUFF ORPINGTON DUCKS** and **DRAKES**. Won 1st, 2d, 3d drake, and 1st, 2d and 3d duck at Spartanburg show.

C. W. ANDERSON --: SPARTANBURG, S. C.

WECKLER'S BUFF PLYMOUTH ROCKS

At no time since we have bred Fancy Poultry have we been in as good shape to take care of your orders as we are at this time. Selected breeders of the choicest quality with blood lines behind them that but few other Buff Rock breeders can give you. My special matings are mated up of the choicest birds, with years of experience behind them, such as second young pen, first old pen and sweepstakes pen, at the great Indianapolis show, February, 1913. Eggs from these matings, \$5.00 per 15; \$8.00 per 30; \$20.00 per 100.

A. L. WECKLER --: BUNKER HILL, INDIANA

ROSE COMB RHODE ISLAND REDS

Eggs From Prize Winning Cocks and Record-Laying Hens

Have won twenty-one ribbons from twenty-five entries. Write for mating list.

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WANTED!

POSITION AS MANAGER OF SOUTHERN POULTRY FARM. White Leghorns preferred. Over five years' experience in handling them, from shell to show-room. Member American Poultry Association, National S. C. White Leghorn Club. Can give good references. Am young, unmarried college man; can take position at once. Salary wanted, \$50.00 per month and board. Can refer you to Mr. Roger V. Harp, of Lexington, Ky., State Secretary of A. P. A., or Mr. F. A. Goodlin, of this paper, who both know me well.

W. K. CUMMING,

WINCHESTER, KENTUCKY

space for about 70 birds. More roosting space may be provided by adding another roost if desired. Roosts are placed in the back of the house 3½ feet from the floor. A feed box for storing feed is provided, which facilitates feeding and also teaches the fowls to consider the house as the source of food supply. Windows are placed so that the tops are 5 feet 7 inches high, thus permitting the light to reach the back of the house. For farm use, this house meets all requirements.

Another good house made to accommodate same number of hens: It is 4½ feet high in the back and 8 feet high in front, the greater height in the front being due to the shed type of roof. The front is provided with four, nine light 8 x 10 inch glass windows, the tops of which are 5 feet 10 inches high. Between these are placed two muslin frames 2 x 4 feet. This affords one square foot of glass to 12 square feet of floor space and one square foot of muslin to 10 square feet of floor space. The house has a partition so that two flocks may be kept in the same house. Three roosts 12

feet long are provided in each pen thus affording roosting space for 50 birds in each flock. Except in close confinement this house would accommodate that number. The remainder of the interior equipment is the same as for the previous house.

The Open Front Poultry House.

This house accommodates the same number of birds as the other two. It is different from both the preceding in that the low side faces the south and is entirely open except for a wire screen to keep the fowls in and other birds out. This house uses less material, has no frames to get out of repaired or to be adjusted, has automatic ventilation, and is giving excellent satisfaction. It is meeting with popularity where used. Three roosts 16 feet long placed in the rear and no droppings platform, make it a house with no extra equipment and expense. Two double sash windows, 12 lights, 8 x 10 inch glass placed in the west end afford the necessary light. These should be so arranged that they can be opened, otherwise the house will be too hot for summer use. It may also be

found advisable to place openings for ventilation in the rear, for use during hot weather.

The Portable Colony House.

This house may be used for housing little chicks in the spring; roosts may be installed for summer use, and it is a convenient size for special breeding work during the winter. Such a house may be used to advantage on the farm. Fowls in the brooding yard may be separated from the general flock and the house may be easily hauled to the range for the growing of the next year's stock. This house—8 feet x 12 feet—will accommodate 150 chicks, house 100 growing chicks all summer and furnish ample room for a dozen breeding birds. Its efficiency is increased by a board floor. By raising the house up on blocks excellent shade is furnished and yet it may be easily arranged so as to prevent little chicks from becoming lost underneath.

Combination Hatching and Brood Coop

The main part of the coop is 3 x 6 feet, 3 feet high in front and two feet high in the rear. The coop is divided into four parts by movable partitions made of burlap frames. A door 8 inches wide in the rear facilitates handling the hens. The front has a 10-inch solid door which can be raised to admit light or to provide more ventilation, the opening being covered with wire screen. Doors one foot high made of wire screen and arranged to slide up and down, lead out from each compartment. Covered runways three feet long extend out in front of the coop. These are detachable and may be removed as soon as the chicks do not require them.

The idea is to set four hens at the same time. When the chicks hatch, remove two of the partitions and give the chicks to two hens. When the hens wean their chicks, take out third partition, install roosts and use for young stock the rest of the summer.

By allowing the setting hen the use of the runway, food and water may be supplied with little labor. The coop not only affords hatching quarters but also decreases the number of brood coops found on the farm. In addition the coop is large enough to house a number of young chicks during the summer. Where used this coop is meeting with favor and certainly is much more useful than the little brood coops generally used.—From Missouri Agricultural Experiment Station Bulletin 107.


BURGIN'S "SPECKLED BEAUTY" STRAIN.....

SILVER SPANGLED HAMBURG

"WIN THE BLUE AND LAY EGGS TOO." At Columbus, Ga., December, 1912, I won on singles, 4 firsts, 3 seconds, 3 thirds, 3 fourths, 3 fifths, and 1st, 2d, 3d pen; also, Gold Special for best display. At Charlotte, N. C., January, 1913, won 1st pen (no singles entered). My birds have correct comb and type and are spangled all over. All my prize winners are in my breeding pens, which are the grandest matings I have ever owned. Eggs, \$2.00 per 15; \$3.50 per 30. A few choice cockerels for sale. Eggs from my prize FAWN and WHITE RUNNERS, \$2.00 per 12.

JOE S. BURGIN

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ELLERSLIE, GEORGIA

Poultry Shows and Associations

By EDW. M. GRAHAM, Knoxville, Tennessee

KANSAS CITY SHOW

The following letter has been received from the Secretary of the Kansas City Poultry show, and as the management extends the courtesies of the show room to the poultry press, gratis, we take pleasure in publishing same:

"Our next poultry, pigeon and pet stock show will be held December 8 to 13, 1913, inclusive. We have leased the whole of Convention Hall, which will give us 80,000 feet of floor space in one of the best halls in the United States. Kansas City is the second railroad center in the world, and a good show town, our shows are always well attended by the public. Our show last year was a success. The business done by exhibitors in selling stock and taking orders for eggs equaled any show in America. Exhibitors of incubators, poultry appliances and supplies did a successful business.

"Our entry fee (\$1.00) is the lowest, and our cash premium (\$5.00) is the highest of any winter show in the country; we also have a large number of valuable special prizes. Official catalogue will be printed as soon as judging is completed, giving the names, addresses and winnings of all exhibitors. The show is not given for the benefit of the promoters, but for the benefit of the exhibitors, and to put Kansas City on the map, as giving one of the best winter shows in the country. Exhibit with us.—E. L. Noyes, Secretary, 726 Main Street, Kansas City, Mo.

The first poultry show ever held at Sevierville, Tenn., was put on last month. Judge J. A. Dinwiddie, of New Market, placed the awards under the comparison system. There were a goodly number of entries and much interest was manifested. The association which was recently organized intends to have a larger show next season and the members of this organization are doing much to advance the interest of thoroughbred poultry in Sevier county.

The fifth annual show of the Tri-State Poultry Association will be held at the Tri-State Fair, Memphis, Tenn., September 22-27, 1913. A 1913 directory, giving the names and addresses of the members of the association has been issued, and a list of specialty

R U From Missouri ?

Read these: "When it comes to a square deal, Woolley is not feather-legged." This customer won on every entry at a big Southern show.

"I like to find an honest man once in a while, as it keeps me from losing faith in humanity." We have stacks of them. Read more in our free catalogue of "ALL-WOOL" BUFF LEGHORNS and WHITE ROCKS. A chance to "show" you is all we ask.

WOOLLEY'S POULTRY FARM, Route 4, CHARLOTTE, N. C.
HIGH-CLASS
LINE-BRED
EXHIBITION

BARRED PLYMOUTH ROCKS

We have our pens mated and will be ready to deliver eggs for hatching after February 1st. We have the finest lot of birds we have ever produced. Every male heading our cockerel matings a winner. Every female in our pullet matings a winner. Our cockerel breeding females and pullet breeding males are simply grand. **THEY ARE MATED RIGHT.** They have won for us, they will produce winners for you. Write us and let us tell you more about the greatest all-purpose fowl on earth. We guarantee satisfaction. Give us a trial.

WOLF CREEK POULTRY YARDS

M. H. SMITH, Prop. -- Box 242 -- ABINGDON, VIRGINIA

LANSDEN'S FAMOUS REDS

Everybody interested in GOOD REDS knows LANSDEN and his REDS. They know he knows how to mate them to produce the goods wanted. He has his pens mated and is now ready for your orders for eggs from the strongest blood lines of **REAL RED TYPE** and color so hard to get. Write him at once before placing your order. His RED talk is worth the writing.

H. B. LANSDEN, Red Specialist, MANCHESTER, TENNESSEE

Licensed Poultry Judge. 22 years in the business. That's some.

breeders is set forth in the back of the book.

The annual meeting of the Burke Poultry Association was held at Morganton, N. C., on February 4th. Officers for 1913 were elected as follows: W. A. Leslie, President; L. D. Cox, First Vice President; J. D. Bowman, Second Vice President; E. D. Alexander, Secretary-Treasurer; W. W. Matthews, Superintendent. The report of the retiring Secretary showed that all obligations have been met, a splendid equipment of coops, all paid for, and money in the treasury. The dates for next show are November 19-22, 1913, and the officers are already at work determined to eclipse any past exhibitions of this association. Put Morganton on your list.

LAKELAND, FLORIDA, POULTRY SHOW.

The South Florida Poultry Association held their first poultry show at Lakeland, Florida, on February 10-15. This proved to be the finest show held in Florida this season, being far ahead of Jacksonville, both in numbers and quality. The association is to be complimented on their first show, and the success was chiefly due to the energy of the Secretary, Mr. J. H. Wendler, of Lakeland. The cooping was uniform and over fifteen hundred birds were on exhibition; a fine line of cups were given. The attendance was good in spite of two days rain. By far the largest classes were the Orpingtons, which are extremely popular all through the South; the next class in size was the Barred Rocks. The prin-

STANDARD BRED S. C. WHITE LEGHORNS

D. W. Young's Strain Direct. Not one drop of any other blood. This strain has a type of its own. Stock and Eggs in season, also a few choice pairs of Ferrets (Rough on rats). Send for mating list.

S. F. SHALLCROSS

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Box L.

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ODESSA, DELAWARE

ROBERTS' FAMOUS S. C. RHODE ISLAND REDS

My flock was founded 6 years ago with the Swamp Fox and Red Cloud Strains, the birds that have won more prizes than all other strains combined in the South. By careful selection and proper mating I have produced a HEAVY WINTER LAYING STRAIN OF REDS, having gotten 672 eggs from my prize pen of 12 hens from January 1st to April 1st, 1911; and right now, in mid-winter, I am getting at the rate of 240 eggs a year per hen; and Brother Fancier, they are able to get in the show-room in the hottest competition and come out in the front ranks. Have won everything in their class wherever shown. Insure yourself as a Red Breeder by founding your flock with Roberts' Famous Utility Show Reds. Eggs \$1.00 to \$5.00 per 15; two-third hatch guaranteed or will replace setting at half price. Fancy birds at \$2.00 to \$50.00 each. All my birds are shipped on approval. Yours for a Square Deal.

L. D. ROBERTS -- R. F. D. No. 1 -- WOODLAND, MISSISSIPPI

Quality and Heavy Egg Production

Our SINGLE-COMB BLACK MINORCAS are the champions of the South, have won 95 per cent of first prizes competed for in Atlanta, Macon, Columbus and a score of smaller shows.

All of our stock have been bred from trap-nested, pedigreed layers; records from 200 to 240 eggs per year.

Have 800 head of exhibition and utility stock for sale. Females, good breeders, \$2.50 each; males, \$5.00; exhibition stock priced on request.

All eggs sent postpaid at the following prices: 15, \$2.50; 30, \$4.00; 50, \$5.00; 100, \$9.00; 1,000, \$85.00.

We also have a fine lot of WHITE and BROWN LEGHORNS, BUFF ORPINGTONS, WHITE ROCKS, PARTRIDGE WYANDOTTES, WHITE and FAWN and WHITE INDIAN RUNNER DUCKS; stock and eggs for sale. Catalogue free.

SOUTHERN POULTRY FARMS

--

LaGRANGE, GEORGIA

WHAT IT TAKES TO WIN THE BLUE ON White Rocks, S. C. Reds, Mottled Anconas

We have it. We have won at Morganton, Charlotte, S. E. P. A., and Shelby, N. C. Eggs from our winners at \$1.50, \$2.00, \$3.00 and \$5.00. Send for mating list. Satisfaction guaranteed.

White Oak Poultry Farm THOS. WHISNANT, Jr. Charlotte, N. Carolina
409 Tenth Avenue

cial winners were J. H. Wendler, of Lakeland, Florida, in Barred Rocks and Blue and Buff Orpington ducks; on these he won the Cook cup; it was the finest display of Orpington ducks ever seen in the South.

Wm. Cook & Sons, originators of all the Orpingtons, of Scotch Plains, New Jersey, won sixteen firsts out of a possible sixteen, and their exhibit was the sensation of the show. Mr. Percy A. Cook was there all the week, and made a great number of sales, chiefly among these were his first Black and first Buff Orpington pens, which were sold for \$750 to Princess de Montplyon, who has a fine estate at Bartow, Florida, and who is going into the poultry business for a diversion. Mr. Brinkley, of Iuka, Miss., carried away most of the first prizes in White Rocks. In about two years time this poultry association will have one of the largest poultry shows of the country. Lakeland is a very progressive town of about eight thou-

sand people, situated in a garden spot of Florida. Nine large lakes are in and around the town. Mr. Cook likes it so well that he purchased a place on one of the large lakes, it being seven miles long. This show will stimulate the poultry industry in Florida. We wish the association every success in their work.

ROYALTY IN THE POULTRY BUSINESS.

Yes, a real live Princess has entered into the poultry business; she is very much alive, as proved by the wonderful success she has had with her Collie and Chow dogs, winning all over the world with them, and she made money with them, the same as she will in the poultry business, as she believes in getting the best to start with. She purchased a Collie dog at one time for twenty thousand dollars and states it was one of the best investments she ever made. In the case of poultry,

she purchased the best pens of Orpingtons from their originators, Wm. Cook & Sons, of Scotch Plains, New Jersey; she purchased the two first prize winning pens of Black and Buff Orpingtons at Lakeland, besides a large number of other fine birds from this firm. Her name is Princess de Montplyon and her estate is called Argentean at Bartow, Florida. Her place is perfect for birds, having a good slope and plenty of shade. The price for her best Orpington eggs is \$15.00 a setting. Besides the Orpingtons, her Royal Highness has a fine collection of Collie and Chow dogs.

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ESTIMATES FOR PLANT FOR BREEDING LAYERS.

It is estimated that 50 to 75 acres of land will be required for the proposed poultry breeding farm at the Oregon Agricultural College, to supply the farmers of the State with stock from strong laying hens. When the farm is properly stocked and equipped with buildings and fences, it is expected that it will be entirely self-supporting.

The cost of the plant, it is thought, will be about as follows: land, \$7,000; residence, \$2.00; barn, \$500; poultry houses, \$1,000; fencing, \$500; team, \$400; implements, \$400; incidental supplies, \$200; total \$12,000.

Dr. James Withycombe, director of experiment stations in Oregon, in his biennial report states that the fact that egg laying is a hereditary characteristic, has been conclusively proved by the work done at the college station.

"Experiments have also show that there is a very wide range in egg production among hens of the same breed," says Dr. Withycombe. "For example, in a pen of Plymouth Rocks here receiving identically the same care and feed, the range of production was from 12 to 259 eggs in one year. It would seem, therefore, that if a breeding plant could be established for supplying to farmers, on a large scale, cockerels bred from heavy laying strains, it would be of tremendous financial interest to the State. The poultry industry is becoming rapidly very important, and if the average egg production per hen can be increased materially, it would mean, of course, much greater financial returns.

"In the breeding work for an egg production, two methods are followed: first, by the selection of breeding stock from existing breeds and varieties; second, by crossing to establish a new breed or variety that will excel in laying and general utility qualities. It is thought from the progress already made, that within a few years the latter result may be obtained."



FIRST HEN AT ATLANTA, GEORGIA

Partridge ROCKS

Winners North, South, East and West. At Atlanta, Ga., we won 2nd cock, 1st hen, 1st and 2nd cockerels, 1st pullet and 1st pen; special medal for best display. Also winners at Cleveland, Boston, Alabama Exposition and Chicago. Birds of exceptional quality mated for producing "RAINBOW" Partridge Rocks of high worth. Write for our mating list and catalog.

THE ROCKWOOD FARM
BOX T :- :- NORWALK, OHIO

Specialty Clubs and Associations

As Reported by Their Secretaries

We are in receipt of a copy of the first annual catalogue of the National White Runner Duck Club. This book should be in the hands of every breeder of White Runners. It is illustrated with photos of prominent duck breeders and pictures of their birds and contains valuable articles on breeding and rearing this popular fowl. Write O. O. Ray, Secretary, Kirkwood, Ga., for a copy.

NATIONAL DOMINIQUE CLUB.

Report of annual meeting of National American Dominique Club at Boston Show, January 9, 1913. Officers elected for 1913: President, W. H. Davenport, Griswoldville, Mass.; Vice President, Edson W. Safford, Montrose, Pa.; Secretary-Treasurer, A. Q. Carter, Freeport, Me. Executive Committee: F. E. Fowler, Meriden, Connecticut; L. A. Austin, Pittsfield, Mass. Honorary State Vice Presidents: Charles E. Taylor, Freeport, Me.; F. S. Peaslee, Lakeport, N. H.; W. B. Atherton, Randolph, Mass.; R. C. Dimon, Hartford, Conn.; Geo. H. Dederer, Mt. Vernon, N. Y.; F. S. Benson, Glen Ridge, N. J.; S. F. Yerkes, Mt. Airy, Philadelphia, Pa.; Clark Robinson, Columbia, Mo.; Alta Plank, Woodburn, Oregon.

Annual meeting shall be held at Boston Show, Thursday, January 15, 1914.

Make an effort to show your birds at Boston, 1914, for the management will put on a real Dominique judge as they did this year. The genuine Dominique received its due at Boston at this last show and was greatly admired by the old breeders and poultry editors who are very glad to see them coming out as they should.

Recommended that Dominique breeders discourage emphatically the raising and exhibiting of cross-breeds, falsely called Dominiques and that the club members see to it that only genuine Dominiques receive awards at the shows.

Recommended that the Executive Committee co-operate with the Secretary in obtaining better Standard illustrations, etc., and that these three shall constitute a committee to carry this through.

Treasurer reports all bills paid and \$9.77 on hand, January 11, 1913. During the past year \$10.00 was paid for Life Membership in American Poultry Association.

Paste this in front of your year book for reference.

The annual meeting of the American Barred Plymouth Rock Club was held with the Southeastern Poultry Association, at Charlotte, N. C., on Saturday, January 11th, at 3 p. m., Vice-President R. L. Simmons, presiding. The minutes of the last meeting were read and approved. Two hundred and forty-one new members were admitted to the club. The Treasurer's report was adopted. The following officers were elected to serve for the ensuing year: President, H. P. Schwab; Vice Presidents, E. B. Thompson, A. C. Smith, Victor Bradley, C. H. Latham, C. E. Spaugh, M. W. Baldwin, R. L. Simmons. Executive Committee: C. H. Welles, S. T. Divinia, A. C. Hawkins, Wm. E.



Usual price 25c each
but we offer *two* galvanized iron drinking fountains for 25c as a special inducement to get you acquainted with

PURINA CHICKEN CHOWDER

—a dry mash composed of alfalfa, corn meal, bran, middlings, granulated meat, linseed meal and charcoal, the great egg mash and

GROWING FEED

for baby chicks. Purina Chicken Chowder produces tender and plump broilers at an early age and advances the egg laying period from 2 to 5 weeks.

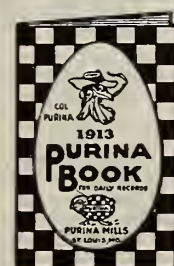
Col. Purina says: "If Chicken Chowder won't make your hens lay, they must be roosters." Chicken Chowder makes fertile eggs for hatching and early broilers that bring fancy prices.

Clip Col. Purina's head from a bag of Purina Chicken Chowder and send it to us, with 25c, and we'll ship you the *two* serviceable, 25c galvanized iron, chick drinking fountains delivered by parcels post.



Purina Poultry Feeds are sold by the leading dealers and grocers. If your grocer cannot supply you, ask him to order a supply including Purina Chicken Chowder from his jobber.

Poultry book free!



For your dealer's name I will send you this 48-page Poultry Book, containing plans of houses, breeding and feeding charts, space for daily egg records, cures of diseases, etc., and full instructions on how to successfully raise baby chicks. Write today.

Col. Purina, Purina Mills,
819 South Eighth St., St. Louis

SWADLEY'S PARTRIDGE WYANDOTTES



They have been bred in line for years. I have won more firsts than any other Southern Breeder. I am the first in the South to win over American, Asiatic, and English Classes on hens and cocks. On account of making room for breeding pens, I will give some rare bargains on cockerels to quick buyers. Cockerels, \$2.50 each; eggs, \$2.50 per setting of 15. Member and director of National Partridge Wyandotte Club. Reference Unaka National Bank.

R. A. SWADLEY
JOHNSON CITY, TENNESSEE

Bright, H. M. Kenner, Amos Vogt, James T. Huston. Secretary-Treasurer, Henry D. Riley, Strafford, Pa. A motion was made instructing the Secretary to publish a club catalogue the coming spring, and to solicit advertisements and suitable articles for the same. The Secretary was instructed to draft an amendment to the Constitution, to provide for the election of 15 Honorary Vice-Presidents, to be elected at the annual meeting. Charges were brought by Messrs. E. B. Thompson and C. H. Welles against Chas. W. Tillford, and after hearing the charges, and Mr. Tillford making no defense, the club voted to expel Tillford. No other business, the meeting adjourned. In regard to the catalogue to be published this spring, every breeder of Barred Rocks should send in his name and join at once, so that he may have his name enrolled in the list of members. Initiation fee and dues \$1.00.—Henry D. Riley, Secretary, Strafford, Pennsylvania.

We are in receipt of the annual catalogue of the American Light Brahma Club. It contains a roster of members and officers and some valuable articles on the Light Brahma breed. Every breeder of this kind of chickens should have a copy of this catalogue. Write the Secretary, Frank P. Johnson, Sta. A, Indianapolis, Indiana.

GUARDING AGAINST "MISHAPS" IN HATCHING CHICKS.

It is a regrettable fact that the larger part of the failure in hatching chicks might be avoided. The "accidents" and "bad luck" arise from wrong conditions. Not only heat, fresh air and moisture are required but there is a certain definite relation between them that must be observed. Failure to observe this relation inevitably results in failure or partial failure of the hatch.

The great difficulty is that poultry raisers do not have the knowledge and the skill in themselves to determine and apply these conditions correctly. It is right here that one incubator, the Mandy Lee, comes in and fills a long-felt want. The Mandy Lee is the one incubator which measures moisture as it measures heat. Heat, moisture and fresh air are regulated and adapted to each other. And the beauty of it is, all this is done automatically.

The Mandy Lee Incubator is manufactured by the Geo. H. Lee Company of Omaha, Neb. It is justly one of the most popular of all the incubators, because operators do not need to depend on their own judgment. They depend upon the incubator. The Mandy Lee is known as "the incubator that hatches by rule." If you prefer to hatch chicks by following plain rules rather than by trusting to your own judgment of "conditions," write to the Geo. H. Lee Co. at Omaha for the 1913 Mandy Lee catalog.

KEEP YOUR CHICKENS HAPPY.

Don't allow your poultry to become a prey to vermin. That is poor management when such an efficient lice killer as Zenoleum can be had so readily and so cheaply. This famous

THE FAMOUS DUMARESQ STRAIN Sicilian Buttercups

From Imported fowls—known all over the country, winners of many ribbons. First at Baltimore's Great show this year. Send fowls and eggs to Cuba, Canada and California with perfect safety and report good hatches. Testimonial of pullets laying in 124 days. Have filled hundreds of orders. Orders now booked. Send for circular. Address

MRS. J. S. DUMARESQ, Cato's Hall, EASTON, MARYLAND
Vice-President American Buttercup Club.

BUFF WYANDOTTES WHITE

Again heavy winners, 1912-1913 winter shows at Chicago, Louisville and Insular Exposition, San Juan, Porto Rico. Line bred for exhibition and laying qualities for fourteen years. A grand lot of cocks, cockerels, hens and pullets for sale cheap for quality. We are now shipping eggs for hatching.

Utility pens, \$2.00 per 15; prize pens, \$3.00 per 15; special pens, \$5.00 per 15; Incubator eggs, \$6.00 per 100. Bred to lay S. C. WHITE LEGHORN eggs, \$1.50 per 15; \$5.00 per 100. Day-old chicks in any quantity from 25 to 1,000. Write today.

POWER & CABLISH POULTRY FARMS, Box J, MAYSVILLE, KY.

DILLARD'S BUFF ROCKS

WIN IN THE STRONG SHOWS

At Spartanburg, S. C., 2d cock; 2d cockerel; 1st, 4th and 5th hen; 2d and 3d pullet; 1st pen; 1st display. Chester, S. C.—3d cock, 1st and 2d hen, 4th pullet, 4th cockerel; (six entries). Statesville, N. C.—3d cock; 3d cockerel; 1st, 2d, 4th and 5th hen; 1st pen. Booking orders for Eggs, \$3.00 and \$1.50 per 15.

S. B. DILLARD --:-- **SPARTANBURG, S. C.**

THE OLIVER DAY PLOW DEMONSTRATION

SATURDAY, MARCH 22, 1913, factory representatives from South Bend, Ind., will be at our store to demonstrate the OLIVER RIDING CULTIVATORS and PLOWS. In addition to this, the Wright Hardware Co. will offer \$15.00 IN GOLD to customers buying a Riding Cultivator, and same shipped out, between January 1st and March 22, 1913. TERMS OF CONTEST—Each purchase of a Riding Cultivator will be numbered and placed in a box, when a little girl will be blindfolded and draw two numbers from the lot. Holder of first number drawn will receive \$10.00 in Gold; second number \$5.00 in Gold. Drawing to be made at 2 p. m., Saturday, March 22, 1913, at our store. This is not only an opportunity to get the best Cultivator on the American Market today, but a chance to get one of the prizes, also. Cultivators may be settled for by Note due Sept. 1, 1913. If you anticipate buying a Cultivator, now is your opportunity. Remember we handle a full line of Hardware, and special agencies, as follows: Genuine Oliver Chilled Plows, Chicamauga Fertilizers, Studebaker Wagons, Pittsburgh Fence, Dairy Maid and Olds' Cream Separators. Peoria Grain Drills and Campbell Corn Drills. For further information, write or phone WRIGHT HARDWARE CO., 212 Gay Street, Both Phones 339, Knoxville, Tenn.

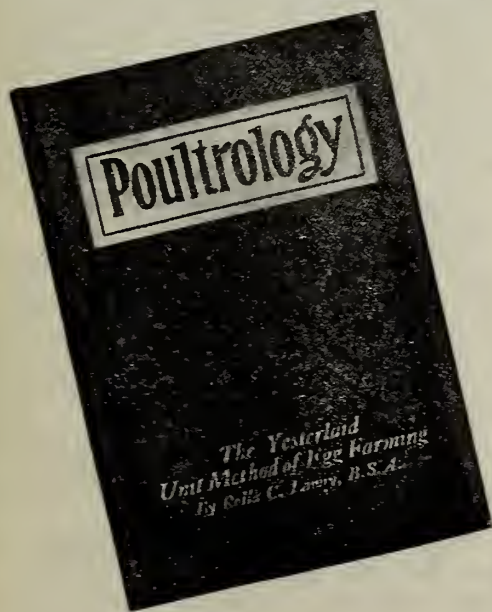
PRIZE-WINNING

Single Comb Black Orpingtons. (Cook's Strain.) Prices reasonable. Stock and eggs for sale. Circular free.
A. S. & I. B. WATKINS, Henderson, N. C.

disinfectant is not poisonous, it does not saturate the house as kerosene does and make it dangerous and likely to burn up at any time, and there is nothing explosive about Zenoleum. Spray the houses, nests and roosts and dip the chicks and fowls themselves. There will be better feeling and more thrift among the grown fowls. There will be more industry and singing among the laying hens, and there will be more eggs than when they stand around fighting lice a good part of the time. It does not cost much. Most every dealer carries Zenoleum in stock and you can get a can for twenty-five cents. You can get a whole gallon for \$1.50, and that will make one hundred gallons of disinfectant for spraying purposes. Just think how far one hundred gallons of disinfectant will go in the average poultry house. Why, it will last you a whole year. Besides Zenoleum is a mighty good remedy for other things besides lice and fleas; for instance, cholera, roup, scaly leg, etc. You could not think of a single investment around the chicken house that would make more money for you than a can of Zenoleum. Have you a copy of that little booklet called "Chicken Chat?" You can have one free for the asking, if you drop a line to the Zenner Disinfectant Company, 201 Lafayette Avenue, Detroit, Michigan.

POULTROLOGY.

This is the name of a 144 page book recently published by The Yesterlaid Egg Farms Co., Pacific, Mo. The book is attractively gotten up and nicely illustrated. It is edited by Rolla C. Lawry, B. S. A., and tells of the unit method of egg farming.



Much valuable information is contained in its pages, telling how to care for and feed the flock; breeding, incubating, brooding, and marketing; also system of management, profession, ethics, etc. In the appendix of this little volume can be found a vast amount of miscellaneous information that is invaluable to the success-



This cut shows the picture of the best WHITE ORPINGTON cockerel and pullet shown at Birmingham show, Dec., 1912. Cockerel weighs 11½ pounds; pullet weighs 9 pounds. Cockerel won 1st prize, A. P. A. silver medal and White Orpington club ribbon for best WHITE ORPINGTON cockerel in show. The pullet did not compete for prizes. P. A. Cook, of Wm. Cook & Sons, says she is the best WHITE ORPINGTON pullet in the show, and one among the best in America. My winnings at the Alabama State Fair: White Orpingtons—2d cockerel, 2d pullet; R. C. Reds—1st, 2d, 3d male; 1st, 2d, 3d, 4th female. Birmingham, Ala., show last December: White Orpingtons—1st cockerel; R. C. Reds—1st cock; 1st and 2d cockerel; 1st hen; 1st, 2d, 3d pullet; 1st pen. EGGS—White Orpingtons, \$3, \$5, \$7.50, \$10 and \$15. R. C. Reds, \$2, \$3, \$5 and \$7.50. Fertility guaranteed. I have a few cockerels and pullets, both Reds and Whites, for sale

at bargain prices. My foundation stock is from the best in America. Write me your wants.

J. L. THORNTON, 109 South 55th Street, BIRMINGHAM, ALA.

S. C. BUFF LEGHORNS

Now is the time to order eggs. March and April hatched birds are ready for fall shows and winter eggs. Write for show record and mating list.

BROOK LAWN POULTRY YARDS, Route No. 2, BRUSH CREEK, TENN

WHITE ORPINGTONS

I am offering to the public some of the grandest bargains of the day in my 1913 matings of WHITE ORPINGTONS. If it is Orpingtons of size, type and quality you are looking for, I have them. Won 1st hen and second pen in the hottest of competition at the big Birmingham, Ala., Show, December 10th to 14th, 1912; no other entries in this class made by me.

Eggs for hatching from my grand birds, \$3.00, \$5.00, \$7.50 and \$10.00 per 15.

FRANK RIDDLE -:- City Court of Birmingham -:- BIRMINGHAM, ALA.

Ben Lomond Farm's

"Leader" Strain of SINGLE COMB BLACK MINORCAS AND SINGLE COMB RHODE ISLAND REDS. Stock and eggs for sale.

J. T. RUTHERFOORD -:- Rockcastle, Virginia

Crystal White and Imported Orpingtons

I can furnish you eggs from choice females of low down, blocky type, red eye, low comb, fine color and low spreading tails, mated to males that are just as good, for \$4.00 per 15. Utility matings, \$2.00 per 15. Liberal discount on larger lots.

GEO. W. BARNES -:- Box 340-E -:- NORWALK, OHIO

ful poultryman. You should get a copy of Poultryology—especially if you are a breeder of Leghorns.

AN INTERESTING OFFER.

The checkerboard bag has come to be a byword for quality poultry feeds. The marvelous success that has always greeted this brand of feed is due, not only to the high standard of quality that has been maintained, but to the accurate knowledge of the poultry raiser's wants. The Ralston Purina Company's offer is found on another page of this issue and consists of two galvanized iron chick drinking fountains which will be delivered at half price to any poultry raiser, who is using Purina Chicken Chowder, the great egg producing mash and growing feed. A fountain of this type sells for 25 cents at any supply house, but Col. Purina will deliver two for 25 cents and a coupon clipped from a checkerboard bag.

This offer is made to induce poultry raisers to try Purina Chicken Chowder

The Industrious Hen can supply you with any Poultry Book published.

MAPLE HILL POULTRY FARM

Mrs. FURMAN Proprietors Mrs. SKEENE

Breeders of G. M. B. Turkeys, "Ringlet" Barred Rocks, S. C. White Leghorns and R. C. R. I. Reds. We have won many blue ribbons on each of our breeds, and won the silver cup offered by the "Morristown Republican" at the recent Morristown show, for the exhibitor securing the largest number of points in the show. Stock and eggs in season. Write us your wants.

Route No. 1, Box No. 23, Morristown, Tenn.

ENGRAVED CARDS

100 and Plate \$1.25

Postpaid

S. B. NEWMAN & COMPANY,
Knoxville, Tenn.

SINGLE COMB BUFF SINGLE COMB BLACK ORPINGTONS = MINORCAS

Now as the hatching season is beginning and you surely want to buy the best stock that you can get for the money, we will quote you a few of our winnings at four State Fairs in competition with the large Eastern breeders.

In the SINGLE COMB BUFF ORPINGTON CLASS at the Nashville State Fair we won: 1st hen; 2d cock; 2d pullet; 3d and 4th cockerel; 3d and 5th pen; 5th cock. Also a special premium on the hen for being the best in the Fair.

At the Alabama State Fair we won: 1st cockerel; 2d cock; 2d hen and 2d pullet.

At the Mississippi State Fair, one of the largest ever held in Jackson: 1st cock; 1st hen; 1st and 3d cockerel.

At the Louisiana State Fair we won: 2d cock; 2d hen; 3d cockerel.

We have the nicest lot of SINGLE COMB BLACK ORPINGTONS which were not exhibited this year.

In the SINGLE COMB BLACK MINORCA CLASS, at the Alabama State Fair we won: 1st, 2d and 4th cockerel; 1st, 2d, 3d, 4th and 5th pullet; 1st and 2d cock; 2d, 3d and 4th hen; 1st and 2d pen. Also a premium for best display of Asiatics.

At the Mississippi State Fair we won: 1st, 2d and 3d cockerel; 2d and 4th pullet; 2d hen; 3d cock, and 1st pen.

At the Louisiana State Fair: 1st and 2d cock; 1st, 2d and 3d cockerel; 1st, 2d, 4th and 5th pullet; 2d hen; 1st and 2d pens.

This should be evidence that we have stock or eggs that you are looking for. We have the largest and best equipped poultry farm in the South. You do not have to go East for eggs for hatching season, taking chances on the climate, when you can get them just as good for possibly less money. All our stock are free range. They are up to the Standard in weight, type and color. Correspondence solicited. Day old chicks only when ordered.

EGGS

From my BUFF ORPINGTON birds will sell at \$2.00, \$3.00 \$5.00, \$10.00, \$15.00 and \$20.00 per setting, eggs for utility purposes at \$10.00 per 100. From our BLACK MINORCAS will sell at \$2.00, \$3.00, \$5.00 and \$10.00 per setting.

KENMORE POULTRY FARM :: Maxey Lane and Gallatin Pike :: NASHVILLE, TENN.

H. L. D. HUGHES DANVILLE, GEORGIA

Breeder of the best BLACK ORPINGTONS, RHODE ISLAND WHITES, RHODE ISLAND REDS, INDIAN RUNNER DUCKS, in Fawn and White, and White. Stock and Eggs for sale. 1912 Winnings as follows:

BLACK ORPINGTONS, Macon, 2nd pen, one entry; Savannah, 1st and sweepstakes, cockerel, one entry; Atlanta, 2nd cockerel, two entries.

RHODE ISLAND WHITES, 1st cockerel and 1st pullet, Macon, two entries; Savannah, 1st cockerel and 1st pullet, two entries; Atlanta, 1st cockerel and 1st pullet, two entries.

INDIAN RUNNER DUCKS, Macon, 1st pen Fawn and White, two entries; Macon, 1st pen White, two entries; Savannah, 1st pair Fawn and White, 2nd pair Fawn and White, 1st White and Sweepstakes, 3 entries; Atlanta, 2nd and 4th pullet and 4th hen, Fawn and White, 4 entries.

WHITE ROCKS

My White Rocks were second in the White Rock class in the International Egg Laying Contest.

They are excellent show birds and will pay big dividends.

J. C. NEFF, Richmond, Kentucky

HAYNIE'S ORPINGTONS

Are extra good winter layers. They have size, color and type. Prize winners in each pen. Satisfaction guaranteed. Eggs, \$5.00 per 15.

J. K. HAYNIE -- -- OPELIKA, ALABAMA

this spring as a growing feed for baby chicks. Chicks should have a separate fountain, which may easily be filled and cleaned. The Purina galvanized iron fountain is serviceable and practical. Our readers will make no mistake by sending for two. Every poultry raiser should have a copy of the 1913 Purina Book, containing space for daily egg records, cures of diseases, breeding and feeding charts, plans for houses, etc. A copy will be sent free to any reader of The Industrious Hen.

FENCE BARGAINS.

We are just in receipt of a letter from James Brown, President of the

Brown Fence & Wire Co., of Cleveland, Ohio, in which Mr. Brown invites every one of our readers to write for his new 1913 catalog. If you need fencing of any kind, for any purposes or if you will need fencing later, it will pay you to write to Mr. Brown at once. Brown Fence is sold direct from factory, all freight pre-paid wherever you live and the prices are exceedingly low. Brown Fence quality is such that over 25,000,000 rods have already been sold direct from factory to customers in all parts of the country. Brown's catalog tells all the facts. Write a postal now—address Dept., 37 Brown Fence & Wire Co., Cleveland, Ohio, and mail at once.

OYSTER SHELL \$1.00 A TON.

Elsewhere in this issue appears the advertisement of the Nabob Remedy Co., Box 23, Gambier, Ohio, in which they make the remarkable statement that they will furnish the available elements of lime from a ton of oyster shell for \$1.00 with a sample for 5 cents equal to the amount to be had from a hundred pounds of shell.

It is well known of course that a ton of oyster shell furnishes only two pounds of material available for egg shell making, and the Nabob Remedy Co., guarantee that 5 pounds of their Prescription No. 4 contains as much shell making material for the hen as is contained in a ton of lime, and in addition the prescription contains elements that will stimulate the laying without in the remotest way injuring the delicate laying organs of the hen.

The Prescription contains absolutely no pepper, mustard, or other injurious substances.

They offer to send a liberal sample for a nickle, or a 5 pound package for a dollar containing the Laying Discovery No. 4.

They claim that No. 4 is cheaper than oyster shell, even though the latter were delivered free and donated because it takes valuable stomach acids to dissolve the oyster shell, and this the hen must produce at great expense of feed.

The company feels that they have a real discovery and will push the matter to the full extent of their capital.

They will gladly send their circulars free for the asking. When writing them mention The Industrious Hen.

The vice of feather pulling may be cured by painting the feathers around the bare places of hens that have had their feathers pulled with a preparation made by dissolving powdered aloes in alcohol. The bitter taste will counterbalance the delight of feather pulling and no harm will result.



William H. and Lady Maud, A Pair of Anconas Imported by Barrett's Ancona Farm, Morristown, Tennessee.

BUFF LEGHORN EGGS IN ZERO.

When eggs are 40 cents per dozen, when farmers with their culls and mongrels are getting one and two eggs per day, while 26 Buff Leghorn pullets are averaging 25 eggs per day, they are making money every day, and Leghorn eggs in Cleveland, in January, were bringing 50 cents per dozen—they are mortgage lifters any day, and pay, if any person wants a breed that pays for their feed. In one township in this county are four farmers. Each has a flock of Buff Leghorns, and they are the only ones in that township who have had eggs to sell since the first of December.

There is certainly something in the breed. There are many flocks of other Leghorns around here, just a few eggs; now we are not running down the other Leghorns, but we are giving facts. There are some great laying strains of White Leghorns, but in 40 years' experience, and investment of \$1,500 in all other Leghorn varieties, we have found out by actual test, that for size, beauty and laying qualities, the Buff Leghorn has no equal. We spent money and time for nineteen years with trap-nests, feed, also for small city lots and farms so as to test their laying qualities as well as for broilers maturing very young, and a breed that pays for their feed with a profit besides. I know one man who has made \$25.00 clear profit from a small flock of Buff Leghorns per month. I am out to hunt up the facts; my experience teaches me that one breed is sufficient; start right, get quality first, then quantity. If you live in a city and have a back yard, get a pen of Buff Leghorns and get your own eggs for home use cheaper by feeding scraps that come from the table; you will not have to pay dog tax. How many poor families that live in the city have from one to two dogs, buy their eggs the year around. The dogs eat more feed than would keep one dozen hens, and no profit.

If you once get Buff Leghorns you will always stay by them; then every year introduce new males or good eggs

from some reliable breeder. Get trap nests, go to the shows with your stock and see what others are doing and how you are crossing; if you get beat don't give up. Keep following up and by and by you will get the ribbons, and get your share of profits.

Mate your females with fine male birds with good shape, and even surface color. But don't expect to buy a 94 point male for \$3.00. The time has gone with dollar birds. If you buy dollar males or females and eggs you have nothing and never will have. When you once have learned the value of Standard bred birds you will pay the price. If you invest in good stock you will always find ready sale and need not be ashamed to show them, as they advertise themselves if you have the quality. But in my experience I find only about 5 per cent that know the value of Standard bred fowls. They want utility fowls, when today all our great breeders of all breeds are breeding finer fowls and less culls, and the demand is greater for Standard bred fowls, that all utility fowls go to the chopping block; and it costs no more to feed Standard bred fowls than utility fowls; the less dollar birds and eggs sold the better.

One very bad mistake has taken effect, and that is, we can name 105 less in the United States of our small shows, simply because they have raised the entrance fee from 25 cents to \$1.00. It puts a good many poor fanciers out of business; they can't pay it. Large shows like Cleveland, it's all right; and too many small shows by comparison. Who wants to pay \$1.00 at shows by comparison? Can you tell how much better your bird is than his? No, never.

We are after facts and the truth. Now some people say Leghorns are wild; they are nervous. Use them kind and gentle; mine are tame, flying on my shoulders and head. Well, while others say they cannot keep inside of any fence, and they scratch up everything—well, I keep mine inside of a fence four feet high and I don't cut their wings. It's easy done if you

know how, and I will be glad to tell all new members in the future who join the Buff Leghorn Club. Give your boy or girl an opportunity for making spending money by getting your fresh eggs every day on the farm or back yards cheaper and saving money by a small profit. Join.

The Buff Leghorn Club has issued a valuable book, worth \$1.00 to any person interested, but will be sent free to any one enclosing a stamp and asking for it.—J. L. Helpman, Freedom Station, Ohio.

—o—

A PECULIAR FREAK OF NATURE.

W. A. Sorrell, of Hampton, Tenn., has a hen that lays a black egg. Mr. and Mrs. Sorrell are in Bristol this week, visiting Mr. and Mrs. J. A. Goodwin. Mr. Sorrell brought with him a sample of the product of the feathered monstrosity. The egg is jet black and Mr. Sorrell says he is willing to make an affidavit that the eggs are that color when laid. Inside they are just like any other eggs.

When the first black egg was found Mrs. Sorrell thought that some one had dyed an egg and placed it in the nest merely as a joke, but subsequent developments showed that the hen actually laid a black egg. Some of the eggs are blacker than others, but all are distinctly black, there being no trace of white or even red. The hen is black and is not different from other hens, except in the color of her egg. Mr. Sorrell expects to send the eggs away for exhibition purposes.—Special Cor. Knoxville Sentinel.

—o—

POULTRY BREEDER'S DIRECTORY

We have received a copy of the American Poultry Breeder's Directory, published by C. V. Colvin, Ansted, W. Va. The book contains 136 pages, and in it are listed breeders of various breeds of poultry throughout the United States, and also the names of the various poultry publications are given. The book sells for 25 cents. Better get one.

DO YOU WANT THE BEST?

Then buy your stock and eggs from Sandy Run Poultry Yards, breeders of **PARTRIDGE, WHITE and COLUMBIAN WYANDOTTES, BLACK MINORCAS and BROWN LEGHORNS.** We have won more prizes at the leading shows the past season than all competitors combined. At three shows, won special for best cock in show, all varieties competing. At Asheville, N. C., won special for best cock and cockerel in show; at Henrietta, N. C., \$50.00 cup for best ten birds in show; at Charlotte, N. C., in the hottest class of birds ever gotten together in this section, won special for best ten birds in show; also for best twelve birds; also for best twenty-five birds; also for best display; also for best cock, hen, cockerel and pullet; this in competition with all varieties and against the classiest birds in the country. This stamps our birds as best in the South. Eggs from these winners, \$2.00 to \$5.00 per 15.

SANDY RUN POULTRY YARDS, A. S. HARRILL, Manager, Ellenboro, North Carolina.

SEND FOR CATALOGUE AND PRICE LIST OF

THE SOUTH'S GREATEST LAYERS

S. C. WHITE ORPINGTONS and S. C. WHITE LEGHORNS. Eggs for hatching in any quantity from both breeds. **ORPINGTON** stock for sale, with wonderful egg records. We breed only from high-class exhibition stock. Our present matings contain blue ribbon winners of exceptionally high quality. Thirteen acres devoted to poultry. Write today to

RUNNYMEDE POULTRY FARM, Route 4, SPARTANBURG, S. C.

GOLDEN BARRED PLY. ROCKS

PARTRIDGE P. ROCKS, EMBDEN GEESE, CRESTED WHITE DUCKS, "BUFF ORPINGTON DUCKS," "ANCONA DUCKS." Originators **GOLDEN BARRED ROCKS and ANCONA DUCKS.** Showed two head ducks at Pittsburg, Pa., January, 1913; won eight firsts, six seconds, six thirds—a prize on every duck. At Indianapolis, Ind., February, 1913, six first, two second, two fifth prizes on ducks. Our Rocks, Geese and Ducks have few equals and no superiors. We are fancy Duck Specialists.

J. H. LEWIS & SONS -:- R. D. No 2, Box 2 -:- CADIZ, OHIO

BARRETT'S BLUE RIBBON STRAIN and IMPORTED MOTTLED ANCONAS

Do you want eggs or stock from birds that win and lay? I will have a limited number of eggs from the best pen of Imported Anconas on this side of the pond. A bargain in a few choice pullets. Write for mating list.

BARRETT'S ANCONA FARM - - - - - MORRISTOWN, TENNESSEE
State Vice-President Ancona Club.

Big 4 Buffalo Incubators—What Mr. Cyphers says.

"The primary conception of the Big 4 dates back to a time during my experimental work—the summer of 1890, to be exact. I was then known in my home in Boston, as an "Incubator crank." One morning I was called to witness a spectacle novel even for that center of early artificial poultry culture.

"Refrigerator cars were not so plentiful as now, and a common car of Western eggs had been side-tracked en route during a hot spell. It arrived in Boston alive with chickens—sun-hatched, aided by the natural animal heat generated by the developing birds. Something over 3,000 lively chicks were taken from that car.

"I had been working on the diffusive principle of incubation which eventually led to the making of the original Cyphers Incubator, and then conceived the idea of bunching eggs and conserving the natural animal heat to aid incubation. Many attempts were made with only partial success. In 1895 at Stroudsburg, Penn., I constructed the first "Mammoth," a 20,000 egg hatcher, for hatching duck eggs.

"This was a building 20 feet square, with a small cell used as a receiving room, in the basement of which was placed a Standard hot-water heater. The heating coils extended around the sides of the hatching room, below the walk, so arranged that the temperature on any one level did not vary one-fourth degree. The regulation was so perfect that it automatically took care of an outside change of temperature of 35 degrees in six hours without varying one-half degree within, something the present hot-water heated Mammoth Incubators cannot approach. One small lot of hen eggs turned off a 100 per cent hatch, and other lots hatched up in the nineties. On duck eggs, for which it was built, it was not a success.

"No provision had been made for cooling. It was forced home to me then that duck eggs must be cooled during incubation, which fact I have repeatedly demonstrated since. Also that cooling gives a stronger chick from hen eggs, although not vitally essential. Lack of funds prevented my prosecuting the original Mammoth Incubator to a finish.

"Many times during my years of Incubator manufacturing experience have I returned to the "Bunched" proposition. In 1907 I was fairly at work on it when the panic of that year caught me too deep in big things to withstand the financial gale. But the final

workable idea did not materialize until two years ago, and perhaps it might be still slumbering had not a new material given me possibilities of heat deflection within narrow spaces, that made the Buffalo Big 4 possible.

"When I put the New Buffalo on the market in 1909, I perfected a water-proofing process for fibre board, which I wanted to use as a lining to an airtight case, preventing leakage. In experimenting with this material I discovered that it had unlooked for heat deflecting properties. It impressed me forcibly that this was just the material that I needed to perfect my "Concentrated hatcher." By dint of much experimenting I have perfected a most simple interior arrangement that gives an effect that I have wanted to produce for more than twenty years.

"The Buffalo Big 4 is substantially made. The weight is approximately 400 lbs. crated. The net measurement is 28" x 44½" x 58", exclusive of the heaters and legs. The side walls are three and one-half inches thick, and the top four inches, well packed with good insulating material. It has double doors, the inner double glass, and an outer pannelled. The amount of oil used to heat it is but a trifle more than required by a 360 egg Standard incubator.

"The heaters and lamp are placed in front, extending in the aisle rather than take up incubating room at the side. The lamp has three burners, which engage the three heaters. This lamp needs filling only once each week. Using a low seat instead of stooping, the attendant can quickly trim the wicks without removing the lamp. The chimneys push up into the heaters, and fit on the burner without removing the lamp. The chimneys push up into the heaters, and fit on the burner with a guide ring. The three burners can be attended quicker and easier than one regular lamp can be filled and trimmed daily.

"The three heaters engage three compartments, which are heated and regulated entirely independent of each other. Each compartment holds two double trays, nesting 420 eggs in a space of 8" x 12½" x 35".

"The Big 4 heats perfectly, regulated perfectly, and is a perfect incubator, but has no room for the exclusion. After the eighteenth day the eggs must be transferred to a Standard incubator, which can be placed on top of the Big 4. We supply short legs for the Buffalo No. 3 for this purpose, although any Standard 360 egg machine may be used. Each of the three sections of the Big 4 holds 420 eggs, 7 eggs wide, 15 eggs long, 4 eggs high,

all turned by turning over two trays. The sections are set six days apart; each lot is transferred from No. 1 to No. 2 and from No. 2 to No. 3 section, and finally to the Standard hatcher for the exclusion. Here we have three days to hatch the chicks, thirty to forty hours to harden up, and then a day to clean up and adjust for the next hatch.

"Each section holds 60 extra eggs to give opportunity to test out the unfertile eggs, and have nearly a full hatcher at the last. The total capacity of the Buffalo Big 4 and auxiliary No. 3 is 1620 eggs that can be incubating and hatching at one time.

"The Big 4 is a wonderful machine, and as simple as it is perfect. It shall meet with the success it deserves, and I will work personally with each operator until his success is assured.

"I wanted to sell the Big 4 at \$60.00, but after running a lot through the factory I find the price must be \$70.00. Simple as it is in design, there is a lot of it, and I personally adjust, heat up, and test for temperature each machine shipped."

AMERICAN BUFF LEGHORN CLUB.

Minutes of the Annual Meeting of the American Buff Leghorn Club, held January 3, 1913, at Madison Square, New York City.

The meeting was called to order by President F. A. Tecktonius. Secretary George S. Barnes being absent, William W. Storms was appointed secretary pro tempore.

The following persons were present in person or by proxy: F. A. Tecktonius, Racine, Wis.; Wm. W. Storms, Racine, Wis.; Chris. H. Leitner, Elgin, Ill.; John W. Stouffer, Orrick, Mo.; W. E. Carpenter, Houston, Tex.; W. H. Bove, Regina Sask., Can.; H. H. Cartwright, Richmond, Ind.; V. E. Shell, Pekin, Ill.; C. M. Buck, Shortsville, N. Y.; George S. Barnes, Battle Creek, Mich.; A. T. Stephens, Denver, Colo.; Edward D. Cornish, Naples, N. Y.; M. L. Isbell, Bearden, Ark.; B. C. Reed, Racine, Wis.; Lyle W. Butler, Louisville, Ky.; A. T. Lindgren, Kingsburg, Cali.; Chas. J. Pfost, Racine, Wis.; S. M. Keltner, Anderson, Ind.; Carl H. Johnson, Ord, Neb.

The minutes of the last meeting were read and duly approved.

The club then proceeded to the election of officers with the following result, the president declaring the following officers had received a majority of all the votes cast for their separate officers:

President—F. A. Tecktonius, Racine, Wis.
Eastern Vice President—Archibald B. Dalby, Red Bank, N. J.

Western Vice President—W. H. Boyle, 1531 4th Ave., West, Vancouver, B. C.

Southern Vice President—M. L. Isbell, Bearden, Ark.

Secretary-Treasurer—Geo. S. Barnes, Battle Creek, Mich.

Executive Committee—Wm. Ulmer, McKeesport, Pa.; Edw. D. Cornish, Naples, N. Y.; Wm. W. Storms, Racine, Wis.

The following amendment to the constitution and by laws was presented by William W. Storms, who moved its adoption:

Rule 19. No person shall be eligible to the office of Honorary Vice President of the club unless he is at the time of election a life member thereof.

The question being upon the adoption of the rule, motion was made and carried that the same be adopted. Having received a majority of the votes, the rule was declared to be adopted.

President F. A. Tecktonius presented to the meeting for discussion the question of combining the National Buff Leghorn Club with the American Buff Leghorn Club under the name of American Buff Leghorn Club and of passing a fixed rule holding the annual meeting of the American Buff Leghorn Club at a central point each year, which place of meeting shall be fixed definitely by an expression of the members of both clubs at large. President Tecktonius stated that he had conferred with officers of the American Buff Leghorn Club and that they were agreeable to some steps taken along this line and that they would obtain the expression of the members of their club as to their choice of the best place or places of holding the annual meeting of both clubs, should they be united.

A motion was made and carried that President F. A. Tecktonius be directed to write a circular letter to all of the members of the American Buff Leghorn Club asking an expression of their opinion as to this question. The members present were of the opinion that only one Buff Leghorn Club should exist in the United States for the best interests of promoting the advancement of the Buff Leghorn interests, both Single and Rose Comb, and all reasonable steps and efforts should be taken to accomplish this result.

The Secretary read the financial report of the club and Secretary George S. Barnes was authorized and directed to prepare the annual

catalogue along the lines the same as has been prepared in previous years.

The following names were presented for members of the American Buff Leghorn Club, and were, upon motion, duly made and carried, elected to membership:

Life Members—Dr. Geo. W. Heath, Stonington, Conn.; Hoyal Johnson, Brush Creek, Tenn.; Wm. M. Ulmer, McKeesport, Pa.; B. C. Reed, Racine, Wis.; Benjamin L. Larsen, West Salem, Wis.; Robert E. Pullford, Alledale, Ont, Can.; J. C. Wetzel, Burlington, Wash.; Lloyd Hildebrand, Bellingham, Wash.

The Club will be pleased to send its 80 page catalogue free to those that ask.

There being no further business the meeting adjourned.

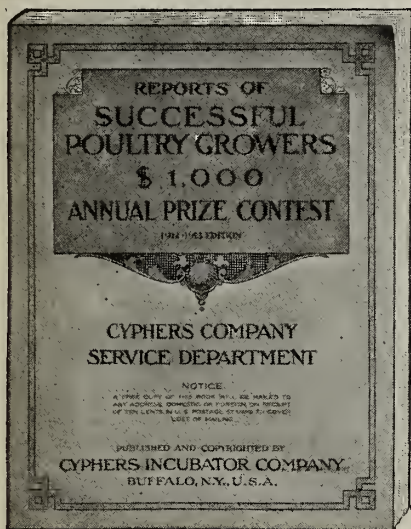
WM. W. STORMS, Secretary pro tem.

\$1,000 PRIZE REPORT BOOK.

Will Be Sent Free To Readers Of This Paper Who Forward Ten Cents In Stamps to Cover Cost of Mailing. The Book Itself is Free.

The following quotation is from a letter just at hand from Grant M. Curtis, President of Cyphers Incubator Company, Buffalo, N. Y.: "At last our company has succeeded in publishing a book, the contents of which cannot fail to be of immense practical value to the thousands of men and women who are deeply interested in learning how they, as individuals, can make money in the poultry business, on either a small or large scale, by taking advantage of local opportunities—by improving home conditions.

"Fifteen months ago we offered \$1,000 in cash prizes for reports of actual records of personal success in producing poultry and eggs for sale, either for table use, or to be used as breeders or for hatching purposes. The first prize was \$200, the second prize \$100, the third prize \$50; then there were ten prizes of \$20 each, twenty prizes of \$10 each and fifty prizes of \$5 each—a total of eighty-three cash prizes."



GET THIS FREE BOOK.

Contains 180 pages, 7½ x 10 inches in size. Many helpful pictures. Gives facts, figures and actual experiences.

"As a result of this offer, more than two hundred bona fide reports were received in competition and now the eighty-three prize-winning reports have been published in a large book of 180 pages—size of pages, 7½ x 10 inches, and there are many illustrations, including portraits of nine out of ten of the authors themselves.

"These reports are not devoted to big hatches made with incubators or to extra good luck met with in brooding chicks. What they do tell about, and the basis on which the eighty-three cash prizes were awarded, is this: "These prizes are to go to the poultry raisers—men and women—who write us, in their own words, the best and most helpful reports of their individual successes in raising poultry for profit by improving their personal opportunities, by taking advantage of local home conditions. What we want are reports of actual work done, of favorable results achieved, of profits made, on either a small or large scale."

Herewith is shown a picture of the front cover of this remarkable book and as above stated, a free copy will be sent to any reader of this poultry journal, on request, who will forward ten cents in stamps to the publishers to cover cost of mailing. The book itself is free and Mr. Curtis says that in his judgment it would be cheap at \$2.00 per copy, if a fair selling price were placed on it. Get your free copy, reader, and judge for yourself.

EGGS for HATCHING and BABY CHICKS from FOGG'S ^{Single Comb} White LEGHORNS

Will produce you fine exhibition birds and heavy layers. The breeders this season are the finest lot we have ever mated.

Our baby chicks are the kind that LIVE, and eggs for hatching will produce that kind. We guarantee safe arrival of eggs and chicks. Send for mating list now.

N. V. FOGG :- Box A :- MT. STERLING, KY.

Barred and White ROCKS

Of the highest quality. Winners of all firsts at the leading Southern shows. More firsts, cups and sweepstakes than any other breeder in the Southeast. If you want quality in stock or eggs write me

J. H. WENDLER :: LAKELAND, FLA.

BRED-TO-LAY

S. C. WHITE and BROWN LEGHORNS, BUFF ORPINGTONS, BARRED PLYMOUTH ROCKS, and PENCILED INDIAN RUNNER DUCKS. Prize winners and good layers, from the best strains. Hens, Pullets, Cocks and Cockerels, \$1.50 and \$3.00 each. Eggs, \$1.50 and \$3.00 per setting of 15. Duck eggs, \$1.25 for 12. Write me.

MONTEREY POULTRY YARDS, F. L. Gill, Prop., MONTEREY, TENN

S. C. BROWN LEGHORNS

SPEARMAN'S BROWN LEGHORNS. If it's real "Quality" you want, I can furnish the "Goods." Think of it, I won forty-one Specials out of forty-three, and twenty-three Silver Cups out of twenty-four; and this season I exhibited at Memphis, Tenn., Lake Charles, La., and Texarkana, Texas, and won twelve firsts, and all my competitors combined won only three firsts. Think of it! I won four times as many firsts as all my competitors. My customers win first at such shows as Chicago and Madison Square Garden. Such winnings never before known. Eggs for sale. Write for free mating list, which gives pictures of my winners, and "That Unequaled Show Record."

N. B. SPEARMAN - - - - - IDA, LOUISIANA.

Address Cyphers Incubator Company, Home Offices, Buffalo, N. Y., or the company's branch store and office nearest you, as follows: New York City, N. Y., 23 Barclay St.; Boston, Mass., 12-14 Canal St.; Chicago, Ill., 329-331 Plymouth Court; Kansas City, Mo., 317 -319 Southwest Blvd., and Oakland, Cal., 2127-2131 Broadway.

THE AMERICAN NEWSPAPER ANNUAL AND DIRECTORY.

1410 pages, royal octavo, cloth, \$5.00 net, carriage extra, postage 60 cents. Published by N. W. Ayer & Son, Advertising Agents, Philadelphia.

The forty-fifth year of continuous publication brings us the 1913 edition of this comprehensive review of the newspaper and magazine field. To the publishers of this country and to those having dealings with them this work is most useful. The facts and figures pertaining to each of the 24,381 publications listed are presented in a condensed and get-at-able form.

The Annual and Directory is now the only publication of its kind which is compiled from information gathered with such care and thoroughness each year from original sources. Mr. George P. Rowell was the first to compile such a work, and for many years he issued the American Newspaper Directory in the interest of publishers and advertisers. Following his death, the Directory, with its records, copyrights and property, was sold to N. W. Ayer & Son, who combined it with their Annual.

A specially valuable feature of the present volume is the population of over eleven thousand towns, little and big, as given by the U. S. Census of 1910 and the Canadian Census of 1911.

As always, special attention has been given to the important matter of circulation figures.

Supplementary to the general catalogue are 208 lists of daily papers, magazines, women's publications, mail-order publications, agricul-

tural, religious, and the various trade and class papers, each class listed under a separate head. This useful feature of the book is kept fully abreast of the times, as is indicated by three of its headings: Aeronautics, Moving Pictures and Esperanto.

The Annual and Directory likewise presents a vast amount of up-to-date gazetteer information showing the transportation, banking and other facilities of every town in which a newspaper is published, together with references to its leading industries and characteristics. This feature is supplemented by a specially prepared map of each state, showing every newspaper town. Convenience and conciseness have been carefully studied throughout, and the book places at the disposal of publishers, of advertisers, of business men, of students, librarians, etc., a vast amount of fresh information not to be procured elsewhere.

LOW PRICE PLUS HIGH QUALITY IN ARTIFICIAL HATCHING MAKES THE SUCCESSFUL INCUBATORS AND BROODERS.

Never before since Incubators and Brooders are so universally in use has so much quality of material, so much carefulness in the construction been offered at such low prices in Incubators and Brooders as is now being done by the Des Moines Incubator Co., of Des Moines, Iowa. This firm is now entering their nineteenth year of business and is enjoying a greater demand for their Incubators, Brooders and Supplies than ever before. This is no doubt due too their everlasting ambition to retain the good will of their customers by giving more than value received for their money, their very reasonable prices and their wonderfully successful hatchers and artificial mothers. It would prove a good investment for you to send for their 128 page beautifully illustrated catalog, which is full of Incubators, Brooders and chicken facts. This great book is sent free if you mention name of this paper.

Single Comb **WHITE LEGHORNS** Exclusively

"THAT'S MY BUSINESS"

The finest laying strain on the South Atlantic Coast. I guarantee pure white plumage, good head points and low, full tails, and full compliance with Standard requirements. I have been perfecting this heavy laying strain for eight years.

HAYDEN CLEMENT :- Box 246 :- SALISBURY, N. C.

Breeders Cards

CLASSIFIED ADVERTISING RATE, 2 cents per word, flat, each insertion, subject to a discount of 10 per cent on yearly contracts amounting to \$6.00 or more. Advertisements in this department must be paid for in advance.

ANCONAS.

SHEPPARD'S FAMOUS ANCONAS.—The world's best. First at world's greatest shows, including London, England, Madison Square and Cleveland. Greatest egg record—256 average. Catalogue free. Cecil Sheppard, Berea, Ohio. 108

HAVE FIVE HUNDRED MATURED HENS to hatch Baby Chicks from. No better strain in United States. Southern trade placing orders right along. Write for best Ancona catalog ever published. J. O. Somers, Bedford, O. 106

EGGS AND STOCK from my beautiful prize-winning Anconas, and Upson strain Buff Orpingtons. Mrs. Juliet R. Whitthorne, Shelbyville, Tenn. 106

ANCONAS—"Quality, not quantity." Winners and layers of plenty of fine eggs. Reasonable prices on eggs from either of my pens. Also a limited number eggs from selected pen of Orpingtons. C. T. Taylor, 612 W. Clinch Ave., Knoxville, Tenn. 105tf

PORTER'S BLUEBELL ANCONAS—The kind that win the prizes and pay the grocery bill. Our exhibition and utility matings are finer than ever; also the finest Rose Comb White Orpingtons. Stamp for illustrated catalogue. S. P. Porter, Mallet Creek, Ohio. tf

ANCONAS, BLACK MINORCAS, Rhode Island Reds, \$1.50 setting. Buff Orpington Ducks, \$2.50 and \$4.00 setting. Silver Campines, \$5.00. W. W. McCutchen, Box 214, Scottsboro, Alabama. 106

ANCONAS EXCLUSIVELY—The World's Greatest Layers, 256 eggs strain. Farm Range. Very dark birds. Winners at Allentown, Bethlehem, Morristown and Washington. Stock at reasonable prices. Eggs, \$1.50 setting; \$6.00 hundred. Write for mating list. Crystal Hill Poultry Farm. A. W. Kinney, Prop., Washington, N. J. 106

MOTTLED ANCONAS. Eggs for hatching from my best pen. (Shenk and Barrett strains, of Morristown and Va.) \$1.00 per fifteen. J. A. Alley, Dandridge, Tenn. 109

COMO CHIX YARD—Sheppard's Anconas Eggs or chicks. Registered Collies. T. P. Wood, Como, Tenn. 116

ANDALUSIANS.

BLUE ANDALUSIANS—White Faced, Black Spanish, Silver Spangled Hamburgs and White Runner Ducks. First winners Tennessee and Georgia State Fairs 1911-12. Eggs at \$1.50 per 15. Duck eggs \$3.00 per 12. H. R. Birchett, Lebanon, Tenn. 117

BLUE ANDALUSIANS and S. C. Black Minorcas, that lay and win you a home. Eggs one, two and three dollars per fifteen. Leslie V. Jacobs, Wilmore, Ky. 108

BLUE ANDALUSIANS and White Face Black Spanish. Best of Stock. 15 eggs \$1.50; 30 eggs \$3.00. A. N. Brown, Woodbury, Tenn. 111

IMPORTED AND DOMESTIC BLUE Andalusians and Rose Comb White Orpingtons. Prize winners at leading shows. Choice stock for sale, also good fertile eggs. Satisfaction guaranteed. W. T. Naylor, Painesville, Ohio. 108

BANTAMS.

RARE BARGAINS—Golden and Silver Sebright, Buff, Black, White and Partridge Cochins, Rose Comb Black, Light Brahma, Black Tailed Japanese, Red Pyle and Black Red Game and Single Comb White Leghorn Bantams. 1,000 birds. Proper & Son, Schenectady, N. Y. 110

BANTAMS.—At Nashville, 1912, over 600 Bantams; I won 18 ribbons on 22 entries in Golden and Silver Sebrights; Buff and Black Cochins; eggs, \$2.00 per 13. Lewis Culps, Pulaski, Tenn. 109

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BLACK SPANISH, Blue Andalusians and Mottled Anconas. The greatest layers. First prizes Charlotte, etc. Eggs cheap. Write for booklet. It's free. Leslie Bolick, Conover, North Carolina. 106

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BUCKEYES—Winners at Madison Square, Boston, Cleveland, Washington, Scranton. Stock and eggs. Buff Orpington Ducks. Catalog free. L. T. Place, Meshoppen, Pa. 108

BUCKEYES—the coming Red variety. Eggs \$2.00 and \$4.00 per setting. Mating list free. Mayradon Poultry Yards, Carey, Ohio. 108

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BUFF ORPINGTON DUCKS, \$2.50 and \$4.00 setting. Silver Campines, a few settings, \$5.00. Anconas, Black Minorcas, Rhode Island Reds, \$1.50 setting. W. W. McCutchen, Box 214, Scottsboro, Alabama. 106

BUFF ORPINGTON DUCK EGGS, \$3 per 11. Partridge Wyandottes, finest quality; eggs, first pen, \$2.50; second, \$1.50. Mrs. J. H. Roberts, Box 153, Gurley, Ala. 107

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Sweetwater, Tenn.,
February 15, 1913.

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PARTRIDGE PLYMOUTH ROCKS—My foundation stock from originator. Prices on stock or eggs reasonable. W. T. Bull, Greenville, S. C. 106

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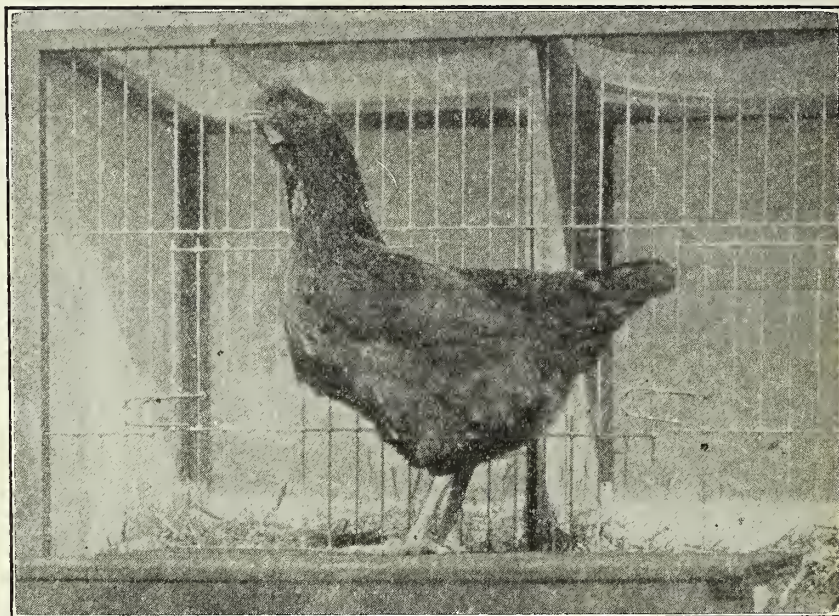
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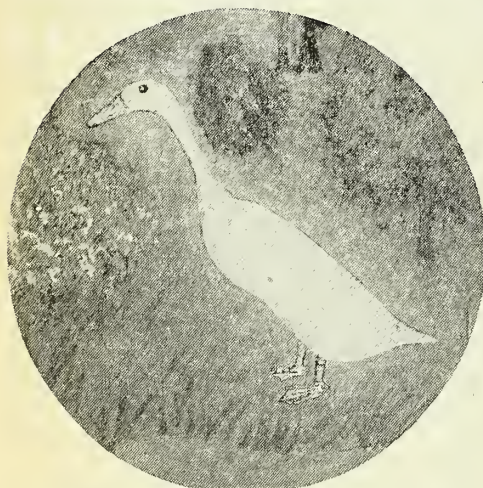
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